

HIGH PERFORMANCE ANTENNAS FOR INBUILDING APPLICATIONS

SMALL CELL, DAS & PUBLIC SAFETY



CONNECTING
PEOPLE +
TECHNOLOGY



Amphenol®
PRIVATE NETWORKS

Performance-Driven Technology for InBuilding Small Cell & DAS Applications



ONE SOURCE. GLOBAL SITE SOLUTIONS™

Amphenol is a leading global solutions provider for wireless infrastructure systems. Whether it's a complex base station, a small DAS network or an InBuilding System, we supply over 6,000 products with best-in-class performance.

With Amphenol, OEMs and operators have the convenience of a one-stop shop, not only for quality antennas, but for transmission line products like feeder cable, hybrid fiber, surge arrestors and connectors as well as RF peripherals like TMAs, combiners, couplers and splitters. And, all products support next generation wireless communication systems.

Amphenol offers years of expertise in product design, development and engineering along with an unparalleled commitment to customer service.



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InBuilding Site Solutions

Amphenol is a single source for wireless infrastructure offering not only antennas for Small Cell and Distributed Antenna Systems, but also Passive Components like couplers, power splitters and attenuators.

A wide selection of antennas gives you the coverage you need for your inbuilding network and the passive components complete the system.

Ceiling Mount Antennas



Unobstrusive, ceiling-mount omni-directional antennas. Dual band and multi band, SISO and MIMO options. Great for indoor and public safety applications.

MicroCell Panel Antennas



SISO and MIMO, wall-mounted panels for indoor and public safety applications. Ideal for coverage in hallways.

Omni-Directional Antennas



Small omni-directional antennas for inbuilding applications.

Directional Couplers



The multi-section design provides flat coupling over the 698-2700 MHz operating band. Available in 3, 6, 10, 13, 15, 20 and 30 dB values. 7/16-DIN and N-Type options.

Jumpers



Designed for indoor applications with high flexibility and small bending diameters. Available in a variety of cable lengths and connector combinations.

Tappers



An alternative to couplers, tappers sample the signal from the main feeder cable for different floors of a building. Available in 6, 7, 8, 10 and 15 dB values. 7/16-DIN and N-Type options.

Power Splitters



Evenly split high power cellular signals with minimal reflections and loss. Available in 2-way, 3-way and 4-way configurations at 698-2700 MHz. 7/16-DIN Female connectors.

Attenuators

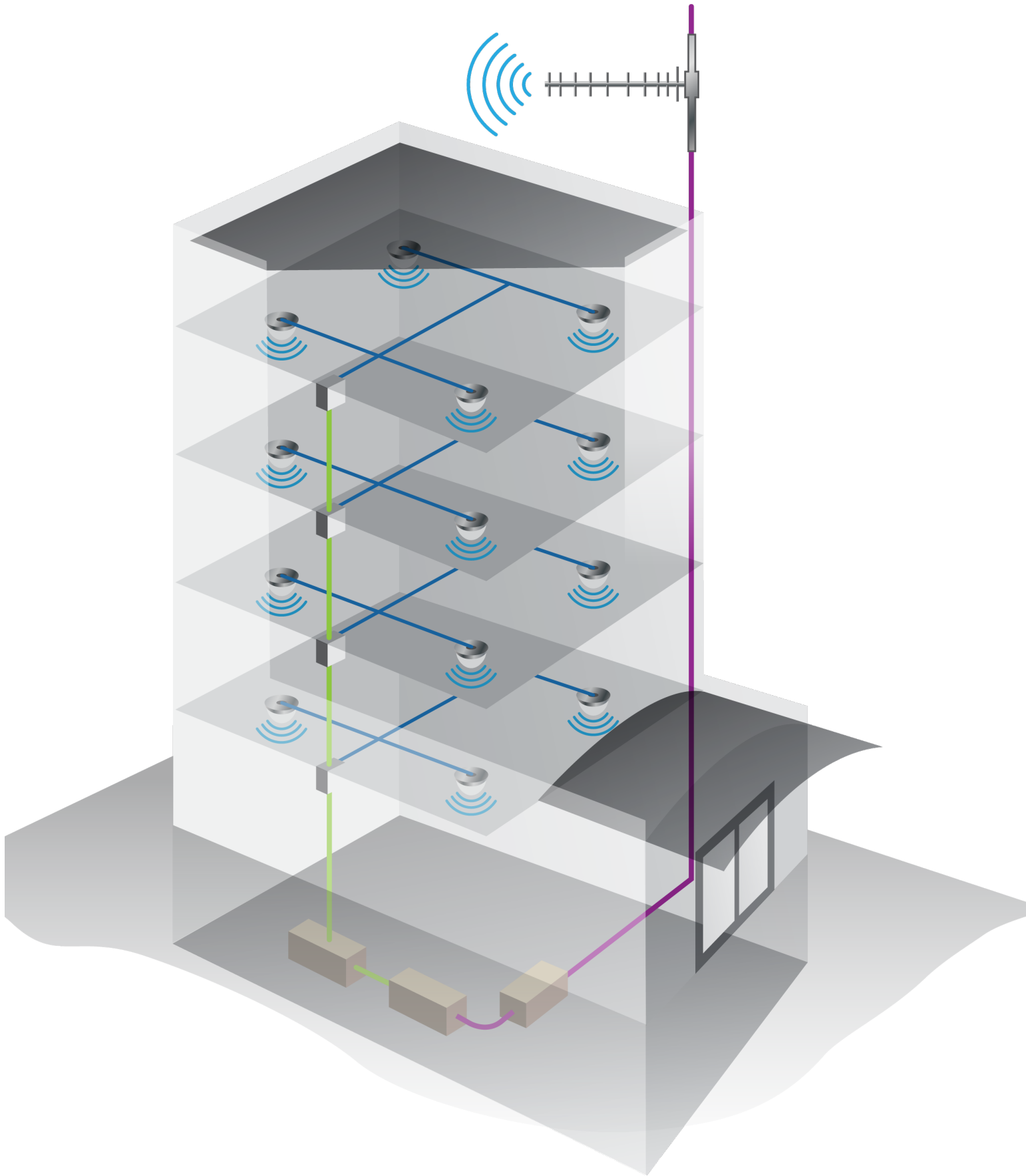


High power, low intermodulation attenuators maintain specified attenuation over a wide band 698-2700 operating range. Available with 7/16-DIN and N-Type connectors.

Termination Loads

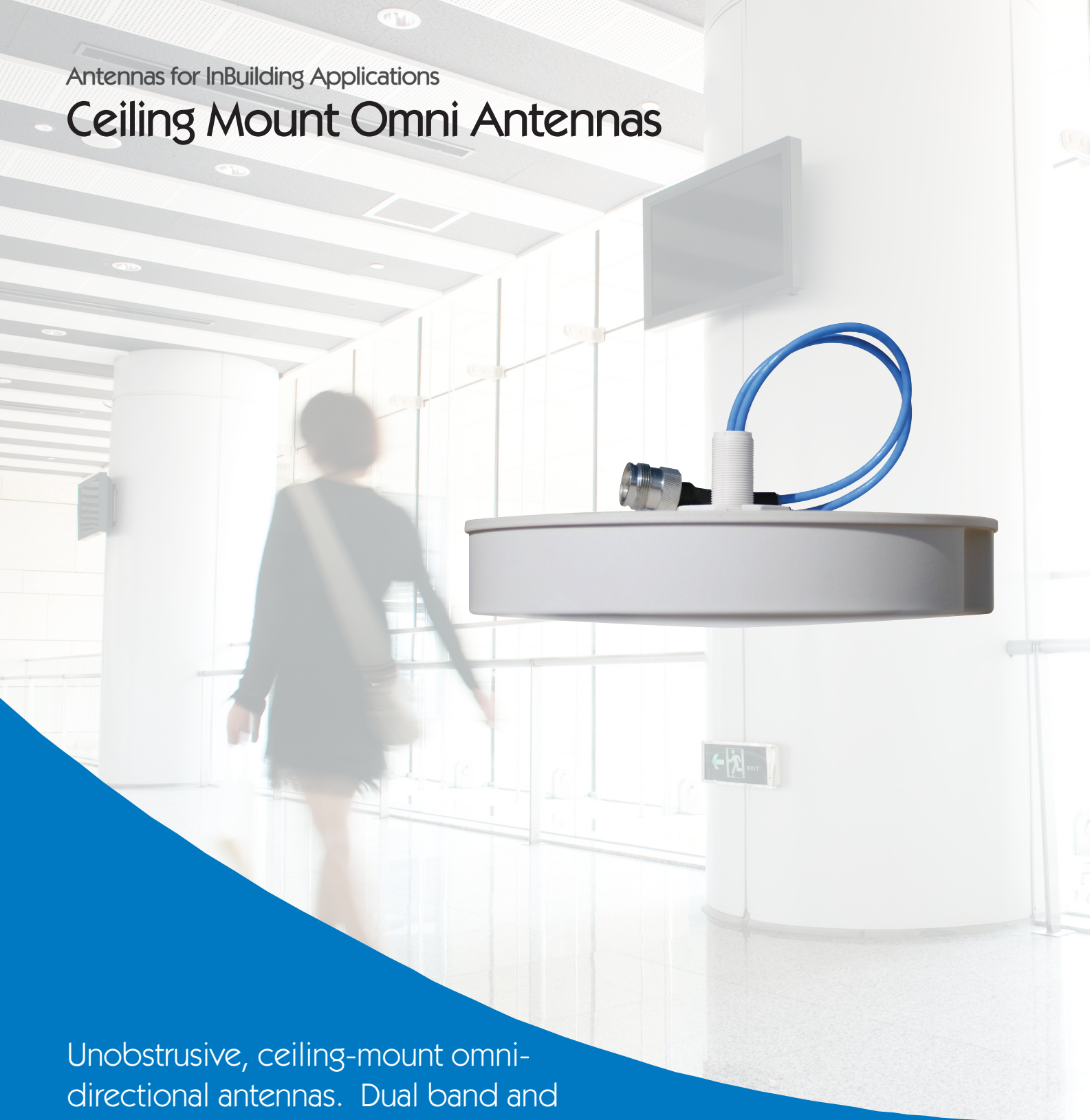


Terminate unwanted ports of hybrid couplers used as in-band combiners. Operates 698-2700 MHz and available in 50W, 100W and 200W. 7/16-DIN and N-Type options.



Antennas for InBuilding Applications

Ceiling Mount Omni Antennas





Unobtrusive, ceiling-mount omni-directional antennas. Dual band and multi band, MIMO and SISO options.

Great for indoor and public safety applications.



Amphenol®
PRIVATE NETWORKS

iDAS

Model Number		5005200			5005300				
Description		2-Band, 2-Port, Ceiling Mount Omni, VHPOL, 360°, 698-2700 1710-2700 MHz, 1.5 3.0 dBi			2-Band, 2-Port, Ceiling Mount Omni, VHPOL, 360°, 698-2700 698-2700 MHz, 3.5 5.0 dBi				
Features		<ul style="list-style-type: none">Indoor, MIMO omni antennaDesigned for ceiling mount installationAvailable with N-Type, 4.1/9.5 or 7/16-DIN connector			<ul style="list-style-type: none">Indoor, MIMO omni antennaDesigned for ceiling mount installationAvailable with N-Type, 4.1/9.5, 4.3/10 or 7/16-DIN connector				
Image									
Ordering Designation		Options		Model Number		Options		Model Number	
		Antenna with N-Type Connector		5005200		Antenna with N-Type Connector		5005300	
		Antenna with 4.1/9.5 Connector		5005200-mDIN		Antenna with 4.1/9.5 Connector		5005300-mDIN	
		Antenna with 7/16-DIN Connector		5005200-DIN		Antenna with 4.3/10 Connector		5005300-4310	
Electrical Characteristics						Antenna with 7/16-DIN Connector		5005300-DIN	
		Port 1: 698-2700 MHz		Port 2: 1710-2700 MHz		Port 1: 698-960 1710-2700 MHz		Port 2: 698-960 1710-2700 MHz	
		698-960	1710-2700	1710-2700		698-960	1710-2700	698-960	1710-2700
		50Ω				50Ω			
Polarization		Vertical		Horizontal		Vertical & Horizontal		Vertical & Horizontal	
Gain		1.5 dBi	1.5 dBi	3.0 dBi		3.5 dBi	5.0 dBi	3.5 dBi	5.0 dBi
Half Power Beamwidth - Horizontal		100-120°	30-65°	360°		360°		360°	
Half Power Beamwidth - Vertical		---	---	---		80-100°		80-100°	
VSWR		< 1.8:1	< 1.8:1	< 1.5:1		< 2.0:1	< 1.8:1	< 2.0:1	< 1.8:1
Isolation		-23 dB typical (inter-port)				-20 dB typical (inter-port)			
Max. Power		50 W				50 W			
Intermodulation		-153 dBc <i>IM value for N-Type only applicable at date of manufacture</i>				-153 dBc <i>IM value for N-Type only applicable at date of manufacture</i>			
Mechanical Characteristics									
Connector		(2x) N-Type, 4.1/9.5 or 7/16-DIN Female on plenum rated cable				(2x) N-Type, 4.1/9.5, 4.3/10 or 7/16-DIN Female on plenum rated cable			
Operating Temperature		-30° to +70° C (-22° to +158° F)				-30° to +70° C (-22° to +158° F)			
Colour		White				White			
Materials		LSZH UV Stable ABS				LSZH UV Stable ABS			
		---				---			
Dimensions		130 x Ø206 mm (5.1 x Ø8.1 in)				35 x Ø210 mm (1.4 x Ø8.3 in)			
Weight		0.6 kg (1.3 lbs)				0.9 kg (2.0 lbs)			
Mounting		Ceiling mount - single point				Ceiling mount - single point			



Quoted performance parameters are provided to offer typical or range values only and may vary as a result of normal manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to product may be made without notice.

iDAS

Model Number		5005300A				5005400			
Description		2-Band, 2-Port, Ceiling Mount Omni, Linear, 360°, 698-2700 698-2700 MHz, 3.5-5.0 3.5-5.0 dBi				2-Band, 2-Port, Ceiling Mount Omni, VPOL, 360°, 698-960 1710-6000 MHz, 4.0 4.0 dBi			
Features		<ul style="list-style-type: none">Indoor, MIMO omni antennaDesigned for ceiling mount installationAvailable with N-Type, 4.1/9.5, 4.3/10 or 7/16-DIN connector				<ul style="list-style-type: none">Indoor, MIMO omni antennaDesigned for ceiling mount installationAvailable with N-Type, 4.1/9.5, 4.3/10 or 7/16-DIN connector			
Image									
Ordering Designation		Options		Model Number		Options		Model Number	
		Antenna with N-Type Connector		5005300A		Antenna with N-Type Connector		5005400	
		Antenna with 4.1/9.5 Connector		5005300A-mDIN		Antenna with 4.1/9.5 Connector		5005400-mDIN	
		Antenna with 4.3/10 Connector		5005300A-4310		Antenna with 4.3/10 Connector		5005400-4310	
		Antenna with 7/16-DIN Connector		5005300A-DIN		Antenna with 7/16-DIN Connector		5005400-DIN	
Electrical Characteristics									
Frequency (MHz)		Port 1: 698-2700 MHz		Port 2: 1710-2700 MHz		Port 1: 698-6000 MHz		Port 2: 698-960 MHz	
		698-960	1710-2700	698-960	1710-2700	698-960	1710-6000	698-960	1710-6000
Impedance		50Ω				50Ω			
Polarization		Linear		Linear		Vertical		Vertical	
Gain		3.5 dBi	5.0 dBi	3.5 dBi	5.0 dBi	4.0 dBi		4.0 dBi	
Half Power Beamwidth - Horizontal		360°		360°		360°		360°	
Half Power Beamwidth - Vertical		90°	30-65°	90°	30-65°	50°		50°	
VSWR		< 2.0:1		< 2.0:1		< 1.5:1	< 2.0:1	< 1.5:1	< 2.0:1
Isolation		≥ 18.5 dB (average)	≥ 22 dB	≥ 18.5 dB (average)	≥ 22 dB	> -10 dB typical (inter-port)			
Max. Power		100 W				50 W			
Intermodulation		-150 dBc <i>IM value for N-Type only applicable at date of manufacture</i>				-153 dBc <i>IM value for N-Type only applicable at date of manufacture</i>			
Mechanical Characteristics									
Connector		(2x) N-Type, 4.1/9.5, 4.3/10 or 7/16-DIN Female on 1m plenum rated cable				(2x) N-Type, 4.1/9.5, 4.3/10 or 7/16-DIN Female			
Operating Temperature		-55° to +60° C (-67° to +140° F)				-30° to +70° C (-22° to +158° F)			
Colour		White				White			
Materials	Radome	ABS				LSZH UV Stable ABS			
	Chassis	---				---			
Dimensions		40 x Ø218 mm (1.6 x Ø8.6 in)				120 x Ø240 mm (4.7 x Ø9.4 in)			
Weight		0.5 kg (1.5 lbs)				1.5 kg (3.3 lbs)			
Mounting		Ceiling mount - single point				Ceiling mount - dual point			

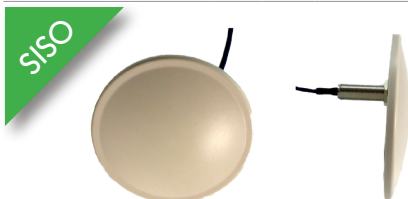
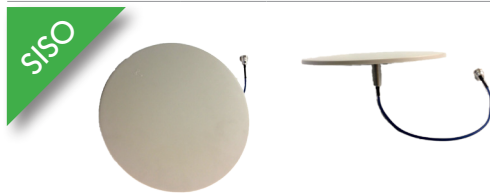
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iDAS

Model Number		5052400		5052450	
Description		2-Band, 1-Port, Ceiling Mount Omni, VPOL, 360°, 695-960 1710-6000 MHz, 2.1 5.0 dBi		2-Band, 1-Port, Ceiling Mount Omni, VPOL, 360°, 695-960 1710-2700 MHz, 2.5 4.5 dBi	
Features		<ul style="list-style-type: none">Indoor, omni antennaDesigned for ceiling mount installationMulti band performanceAvailable with N-Type, 4.1/9.5 or 7/16-DIN connector		<ul style="list-style-type: none">Indoor, multi band, omni antennaDesigned for ceiling mount installationAvailable with N-Type, 4.1/9.5, 4.3/10 or 7/16-DIN connector	
Image					
Ordering Designation		OptionsModel Number		OptionsModel Number	
		Antenna with N-Type Connector5052400		Antenna with N-Type Connector5052450	
		Antenna with 4.1/9.5 Connector5052400-mDIN		Antenna with 4.1/9.5 Connector5052450-mDIN	
		Antenna with 7/16-DIN Connector5052400-DIN		Antenna with 4.3/10 Connector5052450-4310	
Electrical Characteristics					
Frequency (MHz)		695-960 MHz1710-6000 MHz		695-960 MHz1710-2700 MHz	
Polarization		Vertical		Vertical	
Gain		2.1 dBi5.0 dBi		2.5 ± 0.5 dBi4.5 ± 0.5 dBi	
Half Power Beamwidth - Horizontal		360°360°		360°360°	
Half Power Beamwidth - Vertical		60°60°		------	
VSWR		< 2.5:1 (Full Band) < 1.8:1 (806-960 & 1710-2500 MHz)		< 1.8:1< 1.5:1	
Max. Power		50 W		50 W	
Intermodulation		-153 dBc IM value for N-Type only applicable at date of manufacture		-153 dBc IM value for N-Type only applicable at date of manufacture	
Mechanical Characteristics					
Connector		(1x) N-Type, 4.1/9.5 or 7/16-DIN Female +0.3m (11.8 in) RG303 Cable, Rear		(1x) N-Type, 4.1/9.5, 4.3/10 or 7/16-DIN Female on plenum rated cable	
Colour		White		White	
Materials	Radome	UV Stable ABS		LSZH UV Stable ABS	
	Chassis	Aluminium		---	
Dimensions		250 x 117 mm (9.8 x 4.6 in)		115 x Ø203 mm (4.5 x Ø8.0 in)	
Weight		0.35 kg (0.8 lbs)		0.4 kg (0.9 lbs)	
Mounting		Included: screws (3 holes in the base) for ceiling mount Optional: Mounting bracket kit 2121000		Ceiling mount - single point	

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iDAS



Model Number		5087000					5086000		
Description		2-Band, 1-Port, Ceiling Mount Omni, HPOL, 360°, 698-960 1427-3600 MHz, 3.2-6.3 dBi					2-Band, 1-Port, Ceiling Mount Omni, HPOL, 360°, 380-960 1427-2700 MHz, 2.1-4.2 dBi		
Features		<ul style="list-style-type: none">Indoor, omni antennaDesigned for ceiling mount installationMulti band performance					<ul style="list-style-type: none">Indoor, omni antennaDesigned for ceiling mount installationMulti band performance		
Image									
Ordering Designation		Options		Model Number			Options		Model Number
		Antenna with 4.3/10 Connector		5087000			Antenna with 4.3/10 Connector		5086000
Electrical Characteristics									
Frequency (MHz)		698-793	803-881	890-1511	1710-2690	3400-3600	380-450	698-960	1710-2690
Impedance		50Ω					50Ω		
Polarization		Horizontal					Horizontal		
Gain		3.91 dBi	3.26 dBi	3.28 dBi	4.85 dBi	6.30 dBi	2.12 dBi	2.42 dBi	4.18 dBi
Half Power Beamwidth - Horizontal		360°					360°		
VSWR		1.6	1.6	1.6	1.6	1.9	1.77	1.64	1.55
Max. Power		50 W					50 W		
Intermodulation		< -140 dBc		< -150 dBc			< -140 dBc		
Mechanical Characteristics									
Connector		(1x) 4.3/10 Female					(1x) 4.3/10 Female		
Colour		White					White		
Materials		ABS					ABS		
		PCB					PCB		
Dimensions		9 x Ø135 mm (0.4 x Ø5.3 in)					18 x Ø265 mm (0.7 x Ø10.4 in)		
Weight		0.17 kg (0.4 lbs)					0.49 kg (1.1 lbs)		
RoHS		Yes					Yes		

iDAS / Public Safety

Model Number		5056000		UWB-I-380-6000												
Description		1-Band, 1-Port, Ceiling Mount Omni, VPOL, 360°, 330-6000 MHz, 2.1-5.0 dBi		1-Band, 1-Port, Ceiling Mount Omni, Linear-Pol, 360°, 380-6000 MHz, 0 dBi												
Features		<ul style="list-style-type: none">Indoor, omni antennaDesigned for ceiling mount installationUltra-broad, multi band performance		<ul style="list-style-type: none">Ultra wideband, vertically polarized, omni antennaLow profile DAS indoor antenna for the 380-6000 MHz bandCapable of supporting TETRA, GSM, DCS, PCS, UMTS, WiFi 2.4 and 5.6 GHz, 4G LTE and WiMaxProvide with external coaxial cable with N-female connectorNo need for external ground planeTwo installation options												
Image																
Ordering Designation		<table><tr><th>Options</th><th>Model Number</th></tr><tr><td>Antenna with N-Type Connector</td><td>5056000</td></tr><tr><td>Antenna with 4.1/9.5 Connector</td><td>5056000-mDIN</td></tr><tr><td>Antenna with 7/16-DIN Connector</td><td>5056000-DIN</td></tr></table>	Options	Model Number	Antenna with N-Type Connector	5056000	Antenna with 4.1/9.5 Connector	5056000-mDIN	Antenna with 7/16-DIN Connector	5056000-DIN	<table><tr><th>Options</th><th>Model Number</th></tr><tr><td>Antenna with N-Type Connector</td><td>UWB-I-380-6000</td></tr></table>		Options	Model Number	Antenna with N-Type Connector	UWB-I-380-6000
Options	Model Number															
Antenna with N-Type Connector	5056000															
Antenna with 4.1/9.5 Connector	5056000-mDIN															
Antenna with 7/16-DIN Connector	5056000-DIN															
Options	Model Number															
Antenna with N-Type Connector	UWB-I-380-6000															
Electrical Characteristics																
Frequency		330-960 MHz		380-6000 MHz												
Impedance		50Ω		50Ω												
Polarization		Vertical		Linear (Vertically Polarized)												
Gain		2.1 dBi		0 dBi												
Half Power Beamwidth - Horizontal		360°		360°												
Half Power Beamwidth - Vertical		60°		---												
VSWR		330-350 MHz: < 2.8:1 350-6000 MHz: < 2.0:1		Tetra: 380-470 MHz ≤ 2 4G LTE: 698-960 & 2500-2700 MHz ≤ 2 GSM: 880-960 & 1710-1880 MHz ≤ 2 UMTS: 1910-2200 MHz ≤ 2 WiFi: 2400-2500 MHz ≤ 2 WiMax: 5000-6000 MHz ≤ 2												
Max. Power		50 W		50 W												
Intermodulation		-150 dBc <i>IM value for N-Type only applicable at date of manufacture</i>		< -140 dBc (3rd Order, 2x43 dBm)												
Mechanical Characteristics																
Connector		(1x) N-Type, 4.1/9.5 or 7/16-DIN on base of antenna		1 Connector, N-Type Female on 400 mm of RG400 Cable												
Operating Temperature		---		-30° to +70° C (-22° to +158° F)												
Colour		White		White RAL 9003												
Materials	Radome	---		UL 94 HB recognized Flame Retardant Lexan												
	Chassis	---		Aluminium												
Dimensions		334 x 232 mm (13.1 x 9.1 in)		146 x 107 x 325 mm (5.7 x 4.2 x 12.8 in)												
Weight		0.5 kg (1.1 lbs)		0.65 kg (1.4 lbs)												
Mounting		Ceiling mount kit included		Ceiling Mount (two options)												

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Public Safety

Model Number		5211388	5211421								
Description		1-Band, 1-Port, Ceiling Mount Omni, VPOL, 360°, 380-395 MHz, 2.1 dBi	1-Band, 1-Port, Ceiling Mount Omni, VPOL, 360°, 410-430 MHz, 2.1 dBi								
Features		<ul style="list-style-type: none">Indoor, omni antennaSingle band, vertically polarizedDesigned for ceiling mount installationFor use in Public Safety systems	<ul style="list-style-type: none">Indoor, omni antennaSingle band, vertically polarizedDesigned for ceiling mount installationFor use in Public Safety systems								
Image											
Ordering Designation		<table><tr><th>Options</th><th>Model Number</th></tr><tr><td>Antenna with N-Type Connector</td><td>5211388</td></tr></table>	Options	Model Number	Antenna with N-Type Connector	5211388	<table><tr><th>Options</th><th>Model Number</th></tr><tr><td>Antenna with N-Type Connector</td><td>5211421</td></tr></table>	Options	Model Number	Antenna with N-Type Connector	5211421
Options	Model Number										
Antenna with N-Type Connector	5211388										
Options	Model Number										
Antenna with N-Type Connector	5211421										
Electrical Characteristics											
Frequency		380-395 MHz	410-430 MHz								
Impedance		50Ω	50Ω								
Polarization		Vertical	Vertical								
Gain		2.1 dBi	2.1 dBi								
Half Power Beamwidth - Horizontal		360°	360°								
Half Power Beamwidth - Vertical		80°	80°								
VSWR		< 2.1	< 2.1								
Max. Power		30 W	30 W								
Intermodulation		-143 dBc <i>IM value for N-Type only applicable at date of manufacture</i>	-143 dBc <i>IM value for N-Type only applicable at date of manufacture</i>								
Mechanical Characteristics											
Connector		(1x) N-Type Female +0.5m (19.7 in) RG58 Cable, Rear	(1x) N-Type Female +0.5m (19.7 in) RG58 Cable, Rear								
Colour		White	White								
Materials	Radome	ABS	ABS								
	Chassis	Aluminum	Aluminum								
Dimensions		70 x Ø202 mm (2.8 x Ø8.0 in)	70 x Ø202 mm (2.8 x Ø8.0 in)								
Weight		0.47 kg (1.0 lbs)	0.47 kg (1.0 lbs)								
Mounting		Mount with three (3) screws and wall plugs supplied with the antenna. Three (3) white caps are supplied to hide the screws after installation.	Mount with three (3) screws and wall plugs supplied with the antenna. Three (3) white caps are supplied to hide the screws after installation.								

Public Safety

Model Number		5211460	MA100PQ01												
Description		1-Band, 1-Port, Ceiling Mount Omni, VPOL, 360°, 450-470 MHz, 2.1 dBi	1-Band, 0-Port, Ceiling Mount Omni, Linear, 360°, 380..430 MHz, 2.1 dBi												
Features		<ul style="list-style-type: none">Indoor, omni antenna for TETRA applicationsDesigned for ceiling mount installationLow profile, fully shroudedSupplied with 0.5m coaxial cableAvailable with N-Type, 4.1/9.5 or 7/16-DIN connector	<ul style="list-style-type: none">Single band, linear polarized, low profile, indoor omni antennaFully shrouded for indoor or vehicle roof applicationsDesigned for installation on metal surfacesAntenna is user tuned via screw under antenna baseAntenna is supplied with 5 m (16.4 ft) of unterminated coaxial cable												
Image															
Ordering Designation		<table><tr><th>Options</th><th>Model Number</th></tr><tr><td>Antenna with N-Type Connector</td><td>5211460</td></tr><tr><td>Antenna with 4.1/9.5 Connector</td><td>5211460-mDIN</td></tr><tr><td>Antenna with 7/16-DIN Connector</td><td>5211460-DIN</td></tr></table>	Options	Model Number	Antenna with N-Type Connector	5211460	Antenna with 4.1/9.5 Connector	5211460-mDIN	Antenna with 7/16-DIN Connector	5211460-DIN	<table><tr><th>Options</th><th>Model Number</th></tr><tr><td>Antenna with Unterminated Cable</td><td>MA100PQ01</td></tr></table>	Options	Model Number	Antenna with Unterminated Cable	MA100PQ01
Options	Model Number														
Antenna with N-Type Connector	5211460														
Antenna with 4.1/9.5 Connector	5211460-mDIN														
Antenna with 7/16-DIN Connector	5211460-DIN														
Options	Model Number														
Antenna with Unterminated Cable	MA100PQ01														
Electrical Characteristics															
Frequency		450-470 MHz	380..430 MHz <i>Adjust tuning screw under base to achieve required center frequency</i>												
Impedance		50Ω	50Ω												
Polarization		Vertical	Linear, Perpendicular to Base												
Gain		2.1 dBi	2.1 dBi												
Half Power Beamwidth - Horizontal		360°	360°												
Half Power Beamwidth - Vertical		80°	80°												
VSWR		< 2.0:1	< 1.5:1												
Max. Power		30 W	20 W												
Intermodulation		-143 dBc <i>IM value for N-Type only applicable at date of manufacture</i>	---												
Mechanical Characteristics															
Connector		(1x) N-Type, 4.1/9.5 or 7/16-DIN Female +0.5m (19.7 in) RG58 Cable, Rear	No connector, 5 m (16.4 in) of unterminated RG58 cable												
Colour		White	Black												
Materials	Radome	ABS	Polypropelene												
	Chassis	Aluminum	Aluminium												
Dimensions		70 x 202 mm (2.8 x 8.0 in)	35 x Ø178 mm (1.4 x Ø7.0 in)												
Weight		0.47 kg (1.0 lbs)	0.45 kg (1.0 lbs)												
Mounting		Mount with three (3) screws and wall plugs supplied with the antenna. Three (3) white caps are supplied to hide the screws after installation.	Eight (8) 3.3 mm diameter holes in base plate provided for mounting												

Public Safety

Model Number		802.01.05.00	802.00.05.00								
Description		1-Band, 1-Port, Ceiling Mount Omni, VPOL, 360°, 380-430 MHz, 2 dBi	1-Band, 1-Port, Ceiling Mount Omni, VPOL, 360°, 380-470 MHz, 1 dBi								
Features		<ul style="list-style-type: none">• Compact, stylish and efficient indoor antenna• Designed for use with UHF and TETRA systems• A ingenious radiator design allows for incredibly broadband operation• Stylish design makes for a discreet installation in any modern office or industrial complex• Simple to install with the minimum of fuss	<ul style="list-style-type: none">• Compact, stylish and efficient indoor antenna• Designed for use with UHF, TETRA and PMR systems• A ingenious radiator design allows for incredibly broadband operation• Stylish design makes for a discreet installation in any modern office or industrial complex• Simple to install with the minimum of fuss								
Image											
Ordering Designation		<table><tr><th>Options</th><th>Model Number</th></tr><tr><td>Antenna with N-Type Connector</td><td>802.01.05.00</td></tr></table>	Options	Model Number	Antenna with N-Type Connector	802.01.05.00	<table><tr><th>Options</th><th>Model Number</th></tr><tr><td>Antenna with N-Type Connector</td><td>802.00.05.00</td></tr></table>	Options	Model Number	Antenna with N-Type Connector	802.00.05.00
Options	Model Number										
Antenna with N-Type Connector	802.01.05.00										
Options	Model Number										
Antenna with N-Type Connector	802.00.05.00										
Electrical Characteristics											
Frequency		380-430 MHz	380-470 MHz								
Impedance		50Ω	50Ω								
Polarization		Vertical	Vertical								
Gain		2.0 dBi	1 dBi								
Half Power Beamwidth - Horizontal		360°	360°								
Half Power Beamwidth - Vertical		80°	80°								
VSWR		< 2.0:1	< 2.0:1								
Max. Power		50 W	50 W								
Intermodulation		-120 dBm (2x Tx @ 37 dBm)	-120 dBm (2x Tx @ 37 dBm)								
Mechanical Characteristics											
Connector		(1x) 500 mm RG303 term. N-Type Socket	(1x) 500 mm RG303 term. N-Type Socket								
Colour		White	White								
Materials	Radome	Fire Retardant ABS	Fire Retardant ABS								
	Element	FR4 Printed Circuit	FR4 Printed Circuit								
Dimensions		81 x Ø231 mm (3.2 x Ø9.1 in)	81 x Ø231 mm (3.2 x Ø9.1 in)								
Weight		0.4 kg (0.88 lbs)	0.4 kg (0.88 lbs)								
Mounting		Via three (3) screws on 180 mm PCD	Via three (3) screws on 180 mm PCD								

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Public Safety

Model Number		MA100RS00					
Description		1-Band, 0-Port, Ceiling Mount Omni, Linear, 360°, 430..480 MHz, 2.1 dBi					
Features		<ul style="list-style-type: none">• Single band, linear polarized, low profile, indoor omni antenna• Fully shrouded for indoor or vehicle roof applications• Designed for installation on metal surfaces• Antenna is user tuned via screw under antenna base• Antenna is supplied with 5 m (16.4 ft) of unterminated coaxial cable					
Image							
Ordering Designation		<table><tr><th>Options</th><th>Model Number</th></tr><tr><td>Antenna with Unterminated Cable</td><td>MA100RS00</td></tr></table>		Options	Model Number	Antenna with Unterminated Cable	MA100RS00
Options	Model Number						
Antenna with Unterminated Cable	MA100RS00						
Electrical Characteristics							
Frequency		430..480 MHz <i>Adjust tuning screw under base to achieve required center frequency.</i>					
Impedance		50Ω					
Polarization		Linear, Perpendicular to Base					
Gain		2.1 dBi					
Bandwidth		---					
Half Power Beamwidth - Horizontal		360°					
Half Power Beamwidth - Vertical		80°					
VSWR		< 1.5:1					
Max. Power		20 W					
Intermodulation		---					
Mechanical Characteristics							
Connector		No connector, 5 m (16.4 in) of unterminated RG58 cable					
Colour		Black					
Materials	Radome	Polypropylene					
	Chassis	Aluminum					
	Element	---					
Dimensions		35 x Ø178 mm (1.4 x Ø7.0 in)					
Weight		0.45 kg (1.0 lbs)					
IP Rating		---					
Mounting		Eight (8) 3.3 mm diameter holes in base plate provided for mounting					

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Antennas for InBuilding Applications

MicroCell Panel Antennas





MIMO and SISO, wall-mounted panels for indoor and public safety applications.

Ideal for coverage in hallways.




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PRIVATE NETWORKS

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Model Number	7824400		7834400	
Description	2-Band, 2-Port, Microcell Panel, XPOL, 80° 70°, 690-960 1710-2700 MHz, 7.0 11.5 dBi		2-Band, 2-Port, Microcell Panel, XPOL, 78° 73°, 695-960 1710-2700 MHz, 7.0 7.5 dBi	
Features	<ul style="list-style-type: none"> • Dual band, XPOL, microcell panel for MIMO • Long body N-Type connectors enable weather-proofing • Optional mounting systems are available for wall or pole mount 		<ul style="list-style-type: none"> • Wideband microcell directional panel operating 695-2700 MHz • For use in indoor MIMO and LTE applications • Stable performance with low return loss and high gain • A compact, lightweight design that is easy to install • Passive intermodulation < -153 dBc • Available with N-Type, 4.1/9.5, 4.3/10 or 7/16-DIN connectors 	
Image				
Ordering Designation	Options	Model Number	Options	Model Number
	Antenna with N-Type Connector	7824400	Antenna with N-Type Connector	7834400
	Antenna with gray overshroud for safety compliance	7824500	Antenna with 4.1/9.5 Connector	7834400-mDIN
			Antenna with 4.3/10 Connector	7834400-4310
			Antenna with 7/16-DIN Connector	7834400-DIN
Electrical Characteristics				
Frequency	690-960 MHz	1710-2700 MHz	695-806 MHz	806-960 MHz 1710-2700 MHz
Impedance	50Ω		50Ω	
Polarization	±45°		±45°	
Gain	7.0 dBi	11.5 dBi	6.5 dBi	7.0 dBi 7.5 dBi
Half Power Beamwidth - Horizontal	80°	70°	78°	73° 73°
Half Power Beamwidth - Vertical	75°	23.5°	68°	60° 65°
VSWR	< 2:1 max		≤ 2.0	
Isolation	≥ 20 dB (Tx Band)	≥ 25 dB (Tx Band)	≤ 1.5	
Max. Power	100 W per port		100 W per port	
Intermodulation	< -153 dBc		-153 dBc	
Front-to-Back Ratio	> 18 dB		IM value for N-Type only applicable at date of manufacture	
			15 dB	15 dB 25 dB
Mechanical Characteristics				
Connector	(2x) N-Type Female, Bottom		(2x) N-Type, 4.1/9.5, 4.3/10 or 7/16-DIN Female	
Operating Temperature	---		-55° to +60° C (-67° to +140° F)	
Colour	White		White	
Materials	Radome	---	ABS	
	Chassis	---	---	
Dimensions (Length x Width x Height)	296 x 230 x 112 mm (11.7 x 9.1 x 4.4 in)		305 x 186 x 63 mm (12.0 x 7.3 x 2.5 in)	
Weight	1.6 kg (3.5 lbs)		0.7 kg (1.5 lbs)	
Mounting	Plate top and bottom. Comes complete with wall fixings.		Wall mounted	



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iDAS

Model Number		7691400		PLPI-900-1800	
Description		2-Band, 2-Port, Microcell Panel, XPOL, 80° 75°, 695-960 1710-2700 MHz, 7.0 7.5 dBi		Indoor Dual Patch Antenna for the 900 and 1800 MHz Band	
Features		<ul style="list-style-type: none"> Two, wide band crossed dipoles $\pm 45^\circ$ polarization Small, white panel antenna Wall-mounted for indoor and outdoor applications 		<ul style="list-style-type: none"> Low profile antenna for the 900 and 1800 MHz bands Patch antenna for indoor use Carefully sealed with a discreet white cover Two side connectors enables mounting close to wall or ceiling 	
Image					
Ordering Designation		Options	Model Number	Type	Product No.
		Antenna with N-Type Connector	7691400	PCPI-900-1800	100000322
		Antenna with 4.1/9.5 Connector	7691400-mDIN		
		Antenna with 7/16-DIN Connector	7691400-DIN		
Electrical Characteristics				PCS	
Frequency		695-960 MHz	1710-2700 MHz	880-960 MHz	1710-1880 MHz
Impedance		50 Ω		Nom. 50 Ω	
Polarization		$\pm 45^\circ$		Linear	
Gain		7.0 dBi	7.5 dBi	8 dBi	
Bandwidth		---		80 MHz @ SWR ≤ 2	170 MHz @ SWR ≤ 2
Half Power Beamwidth		73-90°	62-90°	65-85° in azimuth plane 60-80° in elevation plane	
SWR		VSWR < 2.0:1	VSWR < 2.0:1	≤ 2	
Isolation Between Ports		> 23 dB		---	
Max. Power		25 W per port		100 W	
Intermodulation		-150 dBc <i>IM value for N-Type only applicable at date of manufacture</i>		Not rated	
Front-to-Back Ratio		> 19 dB		---	
Mechanical Characteristics					
Connector		(2x) N-Type, 4.1/9.5 or 7/16-DIN Female, on 0.5 m (19.7 in) flylead of white RG303		(2x) N-Female	
Colour		---		Marine White	
Materials	Radome	---		PS	
	Chassis	---		Aluminum	
Dimensions (Length x Width x Height)		207 x 207 x 125 mm (8.1 x 8.1 x 4.9 in)		Approx. 250 x 200 x 30 mm (9.8 x 7.9 x 1.2 in)	
Weight		0.6 kg (1.3 lbs)		Approx. 0.4 kg (0.9 lbs)	
Mounting		Wall mounted standard - stainless steel plate, 4 screw holes		For mounting on wall or ceiling $\varnothing 4.5 \times 20$ mm (4 holes)	

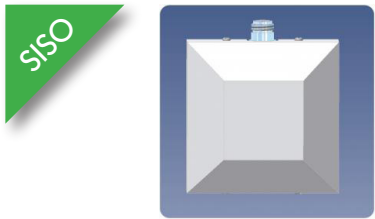
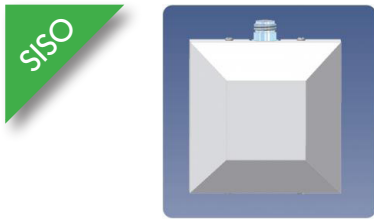
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iDAS

Model Number		5003500		5029000	
Description		2-Band, 1-Port, Microcell Panel, VPOL, 80° 65°, 695-960 1710-2700 MHz, 6.5 8.0 dBi		1-Band, 1-Port, Microcell Panel, VPOL, 115°, 690-2700 MHz, 5.0 dBi	
Features		<ul style="list-style-type: none">Indoor, microcell antennaVertically polarizedWall mounted designDual band performance, covers all LTE bandsAvailable with N-Type, 4.1/9.5, 4.3/10 or 7/16-DIN connectors		<ul style="list-style-type: none">Indoor/outdoor, vertically polarized “Shark Fin” panelVertically polarizedWide beam coverage with limited gain for near useDesigned for wall or ceiling mount	
Image					
Ordering Designation		Options	Model Number	Options	Model Number
		Antenna with N-Type Connector	5003500	Antenna with N-Type Connector	5029000
		Antenna with 4.1/9.5 Connector	5003500-mDIN	Antenna with 4.1/9.5 Connector	5029000-mDIN
		Antenna with 4.3/10 Connector	5003500-4310	Antenna with 7/16-DIN Connector	5029000-DIN
		Antenna with 7/16-DIN Connector	5003500-DIN		
Electrical Characteristics					
Frequency		695-960 MHz1710-2700 MHz		690-2700 MHz	
Impedance		50Ω		50Ω	
Polarization		Vertical		Vertical	
Gain		6.5 dBi8.0 dBi		5.0 dBi	
Half Power Beamwidth - Horizontal		80°65°		115°	
Half Power Beamwidth - Vertical		73°60°		70°	
VSWR		< 1.8:1		< 1.8:1 Max; < 1.5:1 Typical	
Max. Power		50 W		50 W	
Intermodulation		-153 dBc IM value for N-Type only applicable at date of manufacture		-150 dBc IM value for N-Type only applicable at date of manufacture	
Front-to-Back Ratio		> 12 dB> 18 dB		---	
Mechanical Characteristics					
Connector		(1x) N-Type, 4.1/9.5, 4.3/10 or 7/16-DIN Female, on 0.5 m (19.7 in) cable		(1x) N-Type, 4.1/9.5 or 7/16-DIN Female, on 0.5 m (19.7 in) RG303 cable, white jacket	
Colour		White		White	
Materials	Radome	---		ABS	
	Chassis	---		Aluminum	
Dimensions (Length x Width x Height)		165 x 155 x 50 mm (6.5 x 6.1 x 2.0 in)		282 x 85 x 182 mm (11.1 x 3.3 x 7.2 in)	
Weight		0.25 kg (0.6 lbs)		0.5 kg (1.1 lbs)	
Mounting		Stainless steel flush mount wall plate supplied		Screws supplied for mounting on flat wall	

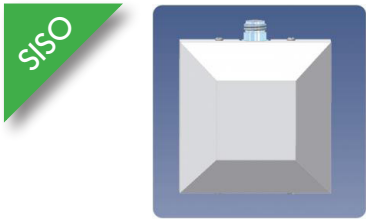
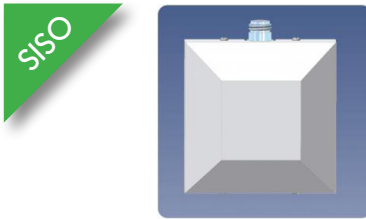
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iDAS

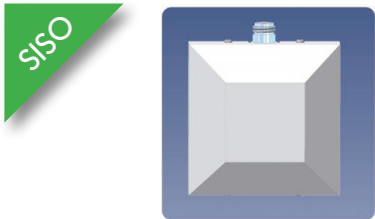

Model Number		PCPI-DCS		PCPI-PCS	
Description		Indoor Right Hand Circularly Polarized Patch Antenna for the DCS 1710-1880 Band		Indoor Right Hand Circularly Polarized Patch Antenna for the PCS 1850-1990 Band	
Features		<ul style="list-style-type: none"> • Low profile antenna for the 1710-1880 MHz band • Patch antenna for indoor use • Circularly polarized to avoid out-of-phase signals • Specially designed for closed rooms • Full size 2 λ circular patch antenna • Carefully sealed with a discreet white cover • Side connector enables mounting close to wall or ceiling 		<ul style="list-style-type: none"> • Low profile antenna for the 1850-1990 MHz band • Patch antenna for indoor use • Circularly polarized to avoid out-of-phase signals • Full size 2 λ circular patch antenna • Specially designed for closed rooms • Carefully sealed with a discreet white cover • Side connector enables mounting close to wall or ceiling 	
Image					
Ordering Designation		Type	Product No.	Type	Product No.
		PCPI-DCS	100000229	PCPI-PCS	100000230
Electrical Characteristics		DCS		PCS	
Frequency		1710-1880 MHz		1850-1990 MHz	
Impedance		Nom. 50 Ω		Nom. 50 Ω	
Polarization		Circular (Right hand)		Circular (Right hand)	
Gain		Approx. 5 dBic 3 dBd \pm 2 dB		Approx. 5 dBic 3 dBd \pm 2 dB	
Half Power Beamwidth		Approx. 70° (H- and E-plane)		Approx. 70° (H- and E-plane)	
SWR		\leq 1.5 f.res.		\leq 1.5 f.res.	
Max. Power		50 W		50 W	
Intermodulation		Not rated		Not rated	
Mechanical Characteristics					
Connector		N-Female		N-Female	
Colour		Marine White		Marine White	
Materials	Radome	PS		PS	
	Chassis	Aluminum		Aluminum	
Dimensions (Length x Width x Height)		Approx. 104 x 104 x 40 mm (4.1 x 4.1 x 1.6 in)		Approx. 104 x 104 x 40 mm (4.1 x 4.1 x 1.6 in)	
Weight		Approx. 0.2 kg (0.4 lbs)		Approx. 0.2 kg (0.4 lbs)	
Mounting		For mounting on wall or ceiling \varnothing 4.5 x 10 mm (4 holes)		For mounting on wall or ceiling \varnothing 4.5 x 10 mm (4 holes)	

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iDAS


Model Number		PCPI-DECT		PCPI-UMTS	
Description		Indoor Right Hand Circularly Polarized Patch Antenna for the 1880-1900 MHz Band		Indoor Right Hand Circularly Polarized Patch Antenna for the UMTS 1910-2200 MHz Band	
Features		<ul style="list-style-type: none"> • Low profile antenna for the 1880-1900 MHz band • Patch antenna for indoor use • Circularly polarized to avoid out-of-phase signals • Specially designed for closed rooms • Full size 2 λ circular patch antenna • Carefully sealed with a discreet white cover • Side connector enables mounting close to wall or ceiling 		<ul style="list-style-type: none"> • Low profile antenna for the 1910-2200 MHz band • Patch antenna for indoor use • Circularly polarized to avoid out-of-phase signals • Full size 2 λ circular patch antenna • Specially designed for closed rooms • Carefully sealed with a discreet white cover • Side connector enables mounting close to wall or ceiling 	
Image					
Ordering Designation		Type	Product No.	Type	Product No.
		PCPI-DECT	100000158	PCPI-UMTS	100000231
Electrical Characteristics		DECT		UMTS	
Frequency		1880-1900 MHz		1910-2200 MHz	
Impedance		Nom. 50 Ω		Nom. 50 Ω	
Polarization		Circular (Right hand)		Circular (Right hand)	
Gain		Approx. 5 dBic 3 dBd \pm 2 dB		Approx. 5 dBic 3 dBd \pm 2 dB	
Half Power Beamwidth		Approx. 70° (H- and E-plane)		Approx. 70° (H- and E-plane)	
SWR		\leq 1.5 f.res.		\leq 1.5 f.res.	
Max. Power		50 W		50 W	
Intermodulation		Not rated		Not rated	
Mechanical Characteristics					
Connector		N-Female		N-Female	
Colour		Marine White		Marine White	
Materials	Radome	PS		PS	
	Chassis	Aluminum		Aluminum	
Dimensions (Length x Width x Height)		Approx. 104 x 104 x 40 mm (4.1 x 4.1 x 1.6 in)		Approx. 104 x 104 x 40 mm (4.1 x 4.1 x 1.6 in)	
Weight		Approx. 0.2 kg (0.4 lbs)		Approx. 0.2 kg (0.4 lbs)	
Mounting		For mounting on wall or ceiling \varnothing 4.5 x 10 mm (4 holes)		For mounting on wall or ceiling \varnothing 4.5 x 10 mm (4 holes)	

iDAS



Model Number		PCPI-DCS-UMTS		PLPI-UMTS-2100	
Description		Indoor Right Hand Circularly Polarized Patch Antenna for the DCS/UMTS 1710-2200 MHz Band		Indoor Linearly Polarized Patch Antenna for the UMTS 2100 Band	
Features		<ul style="list-style-type: none"> • Low profile antenna for the 1710-2200 MHz band • Patch antenna for indoor use • Circularly polarized to avoid out-of-phase signals • Specially designed for closed rooms • Carefully sealed with a discreet white cover • Side connector enables mounting close to wall or ceiling 		<ul style="list-style-type: none"> • Low profile antenna for the UMTS 2100 band • Patch antenna for indoor use • Carefully sealed with a discreet white cover • Side connector enables mounting close to wall or ceiling 	
Image					
Ordering Designation		Type	Product No.	Type	Product No.
		PCPI-DCS-UMTS	100000242	PCPI-UMTS-2100	100000323
Electrical Characteristics		DCS/UMTS		UMTS 2100	
Frequency		1710-2200 MHz		2110-2170 MHz	
Impedance		Nom. 50Ω		Nom. 50Ω	
Polarization		Circular (Right hand)		Linear	
Gain		Approx. 5 dBic 3 dBd		6-9 dBi	
Bandwidth		---		≥ 80 MHz @ SWR ≤ 2.0	
Half Power Beamwidth		Approx. 70° (H- and E-plane)		Approx. 60° (H- and E-plane)	
SWR		≤ 2.0		≤ 1.5 f.res.	
Max. Power		50 W		25 W	
Intermodulation		Not rated		Not rated	
Mechanical Characteristics					
Connector		N-Female		N-Female	
Colour		Marine White		Marine White	
Materials	Radome	PS		PS	
	Chassis	Aluminum		Aluminum	
Dimensions (Length x Width x Height)		Approx. 104 x 104 x 40 mm (4.1 x 4.1 x 1.6 in)		Approx. 204 x 204 x 28 mm (8.0 x 8.0 x 1.1 in)	
Weight		Approx. 0.2 kg (0.4 lbs)		Approx. 0.4 kg (0.9 lbs)	
Mounting		For mounting on wall or ceiling Ø4.5 x 10 mm (4 holes)		For mounting on wall or ceiling Ø4.5 x 20 mm (4 holes)	

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iDAS



Model Number		PCPI-WIFI	
Description		Indoor Right Hand Circularly Polarized Patch Antenna for the WIFI 2400-2500 MHz Band	
Features		<ul style="list-style-type: none"> • Low profile antenna for the 2400-2500 MHz band • Patch antenna for indoor use • Circularly polarized to avoid out-of-phase signals • Specially designed for closed rooms • Carefully sealed with a discreet white cover • Side connector enables mounting close to wall or ceiling 	
Image			
Ordering Designation		Type	Product No.
		PCPI-WIFI	TBD
Electrical Characteristics		WiFi	
Frequency		2400-2500 MHz	
Impedance		Nom. 50Ω	
Polarization		Circular (Right hand)	
Gain		Approx. 5 dBi 3 dBd ±2 dB	
Half Power Beamwidth		Approx. 70° (H- and E-plane)	
SWR		≤ 2.0	
Max. Power		50 W	
Intermodulation		Not rated	
Mechanical Characteristics			
Connector		N-Female	
Colour		Marine White	
Materials	Radome	PS	
	Chassis	Aluminum	
Dimensions (Length x Width x Height)		Approx. 104 x 104 x 40 mm (4.1 x 4.1 x 1.6 in)	
Weight		Approx. 0.2 kg (0.4 lbs)	
Mounting		For mounting on wall or ceiling Ø4.5 x 10 mm (4 holes)	

Public Safety

Model Number		XCPI-160-RHCP		XCPI-160-450-RHCP		
Description		Indoor Right Hand Circularly Polarized Antenna for the 160 MHz Band		Indoor Right Hand Circularly Polarized Antenna for the 160 MHz and 450 MHz Bands		
Features		<ul style="list-style-type: none">• Low profile antenna for the 160 MHz band• For indoor ceiling or wall use• Circularly polarization to avoid out-of-phase signals• Reduces flutter considerably• Specially designed for closed rooms• Carefully sealed with a discreet cover• Side connector enables mounting close to wall or ceiling		<ul style="list-style-type: none">• Low profile, dual band indoor antenna for wall or ceiling• Circularly polarized to optimize indoor coverage• Reduces flutter considerably• Specially designed for closed rooms• Two built-in antennas are combined with a built-in, low insertion loss diplexer, enabling one download cable• Carefully sealed with a discreet cover• Side connector enables mounting close to wall or ceiling		
Image						
Ordering Designations		Type	Product No.	Type	Frequency	Product No.
		XCPI-160-RHCP	100000154	XCPI-160-450-RHCP-s	380-400 MHz	100000495
				XCPI-160-450-RHCP-f	410-430 MHz	100000498
				XCPI-160-450-RHCP-h	450-470 MHz	100000496
Electrical Characteristics		160 MHz		160 MHz		450 MHz
Frequency		144-175 MHz		144-175 MHz		380-400 MHz 410-430 MHz 450-470 MHz
Impedance		Nom. 50Ω		Nom. 50Ω		
Polarization		Circular (Right hand)		Circular (Right hand)		
Gain		Approx. 2 dBic		Approx. 2 dBic	Approx. 5 dBic	
Half Power Beamwidth		Approx. 60° (H- and E-plane)		Approx. 60° (H- and E-plane)		
Bandwidth		≥ 31 MHz @ SWR ≤ 2		≥ 8 MHz	≥ 20 MHz	
SWR		≤ 1.5 f.res.		≤ 2		
Max. Power		50 W		25 W		
Intermodulation		Not rated		Not rated		
Mechanical Characteristics						
Temperature Range		-30° to +75° C (-22° to +167° F)		-30° to +75° C (-22° to +167° F)		
Connector		N-Female		N-Female		
Colour		Marine White		Marine White		
Materials	Radome	PS (White)		PS (White)		
	Chassis	Stainless Steel		Stainless Steel		
Dimensions (Width x Length x Height)		Approx. 608 x 608 x 90 mm (23.9 x 23.9 x 3.5 in)		Approx. 608 x 608 x 90 mm (23.9 x 23.9 x 3.5 in)		
Weight		Approx. 5.5 kg (12.1 lbs)		Approx. 6.0 kg (13.2 lbs)		
Mounting		Ø5.5 mm (4 holes). For optimum performance a groundplane of 1x1 m is required		Ø5.5 mm (4 holes). For optimum performance a groundplane of 1x1 m is required		
Electrical Characteristics for Built-In Diplexer						
Frequency (MHz)		---		Low Port: 0-225	High Port: 330-1300	
Max. Input Power		---		25 W	25 W	
Insertion Loss		---		< 0.5 dB	< 0.5 dB	
Isolation		---		Low to high port: > 45 dB		

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Public Safety

Model Number	XCPI-160-900-1800-1900-2100-R					PCPI-70-900-1800-PCS-UMTS-R...				
Description	Indoor Right Hand Circularly Polarized Antenna for 160 MHz, GSM, DCS, PCS and UMTS Bands					Indoor Right Hand Circularly Polarized Antenna for 450 MHz, GSM, DCS, PCS and UMTS Bands				
Features	<ul style="list-style-type: none"> • Low profile, 5-band indoor antenna for wall or ceiling • Circularly polarized to avoid out-of-phase signals • Reduces flutter considerably • Specially designed for closed rooms • The 5 built-in antennas are combined with built-in, low insertion loss diplexers, enabling one download cable • Carefully sealed with a discreet cover • Side connector enables mounting close to wall or ceiling 					<ul style="list-style-type: none"> • 5-band indoor base station antenna • Right hand circularly polarized, 7 dBic antenna specifically designed for ceilings & walls of closed rooms • Circular polarization is chosen to improve link quality • Built-in diplexers with low insertion loss make it possible to have only one connector 				
Image										
Ordering Designations	Type		Product No.			Type		Frequency		Product No.
	XCPI-160-900-1800-1900-2100-R		100000203			PCPI-70-900-1800-PCS-UMTS-R-s		380-400 MHz		100000391
						PCPI-70-900-1800-PCS-UMTS-R-f		410-430 MHz		100000392
						PCPI-70-900-1800-PCS-UMTS-R-I		430-450 MHz		100000393
						PCPI-70-900-1800-PCS-UMTS-R-h		450-470 MHz		100000394
Electrical Characteristics	160 MHz	GSM	DCS	PCS	UMTS	450 MHz	GSM	DCS	PCS	UMTS
Frequency (MHz)	144-175	880-960	1710-1880	1850-1990	1910-2200	380-400 410-430 430-450 450-470	880-960	1710-1880	1850-1990	1910-2200
Impedance	Nom. 50Ω					Nom. 50Ω				
Polarization	Circular (Right hand)					Circular (Right hand)				
Gain	Approx. 2 dBic					Approx. 7 dBic				
Half Power Beamwidth	Approx. 60° (H- and E-plane)					Approx. 60° (H- and E-plane)				
Bandwidth	≥ 31 MHz @ SWR ≤ 2.5	≥ 80 MHz @ SWR ≤ 2.5	≥ 170 MHz @ SWR ≤ 2.0	≥ 140 MHz @ SWR ≤ 2.0	≥ 240 MHz @ SWR ≤ 3.0	≥ 20 MHz @ SWR ≤ 2.0	≥ 80 MHz @ SWR ≤ 2.0	≥ 170 MHz @ SWR ≤ 3.0	≥ 140 MHz @ SWR ≤ 3.0	≥ 290 MHz @ SWR ≤ 3.0
SWR	≤ 1.5 f.res.					≤ 1.5 f.res.				
Max. Power	25 W					25 W				
Intermodulation	Not rated					Not rated				
Mechanical Characteristics										
Connector	N-Female					N-Female				
Colour	Marine White					Marine White				
Materials	Radome: PS (White); Chassis: Stainless Steel					Radome: PS (White); Chassis: Aluminium				
Dimensions (Width x Length x Height)	Approx. 608 x 608 x 90 mm (23.9 x 23.9 x 3.5 in)					Approx. 415 x 415 x 70 mm (16.3 x 16.3 x 2.8 in)				
Weight	Approx. 10 kg (22 lbs)					Approx. 2.0 kg (4.4 lbs)				
Mounting	Ø5.5 mm (4 holes). For optimum performance a ground-plane of 1x1 m is required					Ø4.5 mm (4 holes)				
Electrical Characteristics for Built-In Diplexer	DIPX 225/330		DIPX 1000/1500			DIPX 500/800		DIPX 1000/1500		
	Low Port: 0-225	High Port: 330-1300	Low Port: 0-1000	High Port: 1550-2500		Low Port: 0-500	High Port: 800-1300	Low Port: 0-1000	High Port: 1550-2500	
Frequency (MHz)										
Max. Input Power	25 W each port		35 W each port			35 W each port		35 W each port		
Insertion Loss	0.5 dB	0.5 dB	0.5 dB	0.5 dB		≤ 0.7 dB	≤ 0.7 dB	≤ 0.8 dB	≤ 1.0 dB	
Isolation	Low to high port: 45 dB		Low to high port: 45 dB			Low to high port: ≥ 45 dB		Low to high port: ≥ 45 dB		

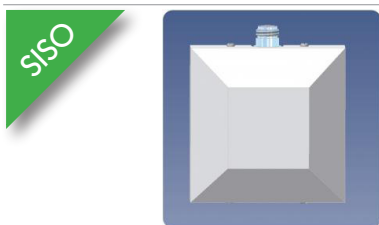

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Public Safety

Model Number		PCPI-TETRA-LTE800-RH		PCPI-900-RHCP	
Description		Indoor Right Hand Circularly Polarized Antenna for the TETRA and LTE Bands		Indoor Right Hand Circularly Polarized Patch Antenna for the 900 MHz Band	
Features		<ul style="list-style-type: none">• Dual band, low profile antenna for the TETRA and LTE bands• For indoor ceiling or wall use• Circular polarization is chosen to improve link quality• Built-in, low insertion loss diplexers make it possible to have only one connector		<ul style="list-style-type: none">• Low profile antenna for the 900 MHz band• Circularly polarized to avoid out-of-phase signals• Specially designed for closed rooms• Full size 2 λ circular patch antenna• Carefully sealed with a discreet white cover• Side connector enables mounting close to wall or ceiling	
Image					
Ordering Designations		Type	Product No.	Type	Product No.
		PCPI-TETRA-LTE800-RH	100000522	PCPI-900-RHCP	100000159
Electrical Characteristics				900 MHz	
Frequency (MHz)		TETRA 380-430 MHz		880-960 MHz	
Impedance		LTE800 790-850 MHz		Nom. 50Ω	
Polarization		Nom. 50Ω		Circular (Right Hand)	
Gain		Circular (Right hand)		Approx. 7 dBic	
Half Power Beamwidth		Approx. 7 dBic		Approx. 80° (H- and E-plane)	
Bandwidth		Approx. 60° (H- and E-plane)		≥ 80 MHz	
SWR		---		≤ 2	
Max. Power		≤ 2		50 W	
Intermodulation		35 W		Not rated	
Mechanical Characteristics		Not rated			
Temperature Range				---	
Connector		-30° to +75° C (-22° to +167° F)		SMA-Female	
Colour		N-Female		Marine White	
Materials		Marine White		ABS	
		PS (White)		Aluminium	
Dimensions (Width x Length x Height)		Aluminium		Approx. 204 x 204 x 28 mm (8.0 x 8.0 x 1.1 in)	
Weight		Approx. 415 x 415 x 70 mm (16.3 x 16.3 x 2.8 in)		Approx. 0.4 kg (0.9 lbs)	
Mounting		Approx. 1.9 kg (4.2 lbs)		For mounting on wall or ceiling Ø4.5 x 20 mm (4 holes)	
Electrical Characteristics for Built-In Diplexer		Ø4.5 mm (4 holes)			
Frequency		DIPX 500/800		---	
Max. Input Power		Low Port: 0-500 MHz		---	
Insertion Loss		High Port: 800-1300 MHz		---	
Isolation		35 W each port		---	
		0.7 dB		---	
		Low to high port: 45 dB		---	

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Public Safety

Model Number	PCPI-GPS		PCPI-GPS-EXTEND		
Description	Indoor Right Hand Circularly Polarized Antenna for the GPS Bands		Indoor Right Hand Circularly Polarized Patch Antenna for Extending GPS Coverage		
Features	<ul style="list-style-type: none">• Low profile antenna for the GPS band• Circularly polarized to avoid out-of-phase signals• Specially designed for closed rooms• Full size 2 λ circular patch antenna• Carefully sealed with a discreet white cover• Side connector enables mounting close to wall or ceiling		<ul style="list-style-type: none">• To be used where GPS signals are missing• Outdoor GPS antenna is necessary• Recommended outdoor GPS antenna: GPS 4/...• Specifically designed for closed rooms• Full size 2 λ circular patch antenna• Carefully sealed with a discreet white cover• Internal 25 dB selective amplifier• PCPI-GPS-EXTEND-12V-5V-N has 5V DC output on N-connector for feeding outside GPS antenna with built-in amplifier• PCPI-GPS-EXTEND-12V-12V-N has 12V DC output on N-connector for phantom powering the unit via the signal line		
Image					
Ordering Designations	Type	Product No.	Type	Supply Voltage	Product No.
	PCPI-GPS	102000001	PCPI-GPS-EXTEND-12V-5V-N	---	102000002
			PCPI-GPS-EXTEND-12V-12V-N	---	102000005
			ADAPTOR-ACDC-12V-EU	---	240000040
			ADAPTOR-ACDC-12V-UK	---	240000041
			GPS-4	5V DC 4.5-5.5 V	112000017
Electrical Characteristics	GPS		GPS		
Frequency	1575 MHz		1575 MHz		
Impedance	Nom. 50Ω		Nom. 50Ω		
Coverage	---		10 - 16 m*		
Polarization	Circular (Right Hand)		Circular (Right Hand)		
Gain	Approx. 5 dBic 3 dBd ±2 dB		Approx. 5 dBic 3 dBd ±2 dB		
Half Power Beamwidth	Approx. 70° (H- and E-plane)		Approx. 70° (H- and E-plane)		
SWR	≤ 1.5 f.res.		≤ 1.5 f.res.		
Supply Voltage	---		PCPI-GPS-EXTEND-12V-5V-N: 12V on DC connector, 5V out on N-connector for GPS outdoor antenna PCPI-GPS-EXTEND-12V-12V-N: 12V phantom voltage on N-connector or 12V on DC-connector		
Supply Current	---		Approx. 150 mA		
Max. Power	50 W		---		
Intermodulation	Not rated		Not rated		
Mechanical Characteristics					
Connector	N-Female		N-Female; DC-Connector: Ø2.5 mm - centre pin		
Colour	Marine White		Marine White		
Materials	Radome: PS; Chassis: Aluminium		Radome: ABS; Chassis: Aluminium		
Dimensions (Width x Length x Height)	Approx. 104 x 104 x 40 mm (4.1 x 4.1 x 1.6 in)		Approx. 104 x 104 x 40 mm (4.1 x 4.1 x 1.6 in)		
Weight	Approx. 0.4 kg (0.9 lbs)		Approx. 200 g (0.4 lbs)		
Mounting	For mounting on wall or ceiling Ø4.5 x 10 mm (4 holes)		For mounting on wall or ceiling Ø4.5 x 10 mm (4 holes)		
Notes	---		* To achieve 10-16 m coverage, the cable loss between the PCPI-GPS-EXTEND and the donor antenna must be 7 dB. (Provided donor antenna gain of 30 dB)		

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Public Safety

Model Number		PLPI-TETRA-...				PLPO-TETRA-...																																																																					
Description		Indoor Linearly Polarized Patch Antenna for the TETRA Band				Outdoor Linearly Polarized Patch Antenna for the TETRA Band																																																																					
Features		<ul style="list-style-type: none">• Low profile antenna for the 380-470 MHz band• Patch antenna for indoor use• Specially designed for closed rooms• Carefully sealed with a discreet cover• Side connector enables mounting close to wall or ceiling• Includes mounting bracket• Connection also available on back side - see ordering options				<ul style="list-style-type: none">• Low profile antenna for the 380-470 MHz band• Patch antenna for outdoor use• Carefully sealed with a discreet cover• Side connector enables mounting close to wall or ceiling• Includes mounting bracket• PATCH-MAMO and PATCH-WAMO to be ordered separately																																																																					
Image																																																																											
Ordering Designations		<table><tr><th>Type</th><th>Conn.</th><th>Frequency</th><th>Product No.</th></tr><tr><td>PLPI-TETRA-s-f</td><td>Side</td><td>380-430 MHz</td><td>100000423</td></tr><tr><td>PLPI-TETRA-l-h</td><td>Side</td><td>430-470 MHz</td><td>100000445</td></tr><tr><td>PLPI-TETRA-s-f-BC</td><td>Back</td><td>380-430 MHz</td><td>100000581</td></tr><tr><td>PLPI-TETRA-l-h-BC</td><td>Back</td><td>430-470 MHz</td><td>TBD</td></tr><tr><td>PATCH-WAMO</td><td>---</td><td>---</td><td>100000511</td></tr></table>				Type	Conn.	Frequency	Product No.	PLPI-TETRA-s-f	Side	380-430 MHz	100000423	PLPI-TETRA-l-h	Side	430-470 MHz	100000445	PLPI-TETRA-s-f-BC	Back	380-430 MHz	100000581	PLPI-TETRA-l-h-BC	Back	430-470 MHz	TBD	PATCH-WAMO	---	---	100000511	<table><tr><th>Type</th><th>Frequency</th><th>Product No.</th></tr><tr><td>PLPO-TETRA-s-f</td><td>380-430 MHz</td><td>100000424</td></tr><tr><td>PLPO-TETRA-l-h</td><td>430-470 MHz</td><td>100000446</td></tr><tr><td>PLPO-TETRA-s</td><td>380-410 MHz</td><td>100000476</td></tr><tr><td>PATCH-MAMO</td><td>---</td><td>100000447</td></tr><tr><td>PATCH-WAMO</td><td>---</td><td>100000511</td></tr></table>				Type	Frequency	Product No.	PLPO-TETRA-s-f	380-430 MHz	100000424	PLPO-TETRA-l-h	430-470 MHz	100000446	PLPO-TETRA-s	380-410 MHz	100000476	PATCH-MAMO	---	100000447	PATCH-WAMO	---	100000511																								
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Temperature Range		-30° to +75° C (-22° to +167° F)				---																																																																					
Connector		N-Female				N-Female																																																																					
Colour		Marine White				Marine White																																																																					
Materials	Radome	ABS (White)				ABS (White)																																																																					
	Chassis	Aluminium				Aluminium																																																																					
Dimensions (Width x Length x Height)		Approx. 345 x 345 x 60 mm (13.6 x 13.6 x 2.4 in)				Approx. 345 x 345 x 60 mm (13.6 x 13.6 x 2.4 in)																																																																					
Weight		Approx. 2.3 kg (5.1 lbs)				Approx. 2.3 kg (5.1 lbs)																																																																					
Windl Load		---				173 N @ 160 km/hr (100 mph)																																																																					
Mounting		For mounting on wall or ceiling Ø5 mm (3 holes)				For mounting on wall Ø5 mm (3 holes) or mast on 40-55 mm diameter mast tube																																																																					



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Public Safety

Model Number		PCPI-xH-TETRA-...				PCPO-xH-TETRA-...				
Description		Indoor Left or Right Hand Circularly Polarized Patch Antenna for the TETRA Band				Outdoor Left or Right Hand Circularly Polarized Patch Antenna for the TETRA Band for Wall or Mast				
Features		<ul style="list-style-type: none">• Low profile antenna for the 380-470 MHz band• Patch antenna for indoor use• Circularly polarized to avoid out-of-phase signals• Reduces flutter considerably• Specifically designed for closed rooms• Carefully sealed with a discreet cover• Side connector enables mounting close to wall or ceiling• Includes mounting bracket• Connection also available on back side				<ul style="list-style-type: none">• Low profile antenna for the 380-470 MHz band• Patch antenna for outdoor use on wall or mast• Circularly polarized to avoid out-of-phase signals• Reduces flutter considerably• Carefully sealed with a discreet cover• Side connector enables mounting close to wall or ceiling• Includes wall mounting bracket• PATCH-MAMO and PATCH-WAMO to be ordered separately				
Image										
Ordering Designations		Polarization	Type	Conn.	Frequency	Product No.	Type	Conn.	Frequency	Product No.
		Left-Hand Circularly Polarized	PCPI-LH-TETRA-s-f	Side	380-430 MHz	100000425	PCPO-LH-TETRA-s-f	Side	380-430 MHz	100000427
			PCPI-LH-TETRA-l-h	Side	430-470 MHz	100000441	PCPO-LH-TETRA-l-h	Side	430-470 MHz	100000444
			PCPI-LH-TETRA-s-f-BC	Back	380-430 MHz	TBD				
			PCPI-LH-TETRA-l-h-BC	Back	430-470 MHz	TBD				
		Right-Hand Circularly Polarized	PCPI-RH-TETRA-s-f	Side	380-430 MHz	100000426	PCPO-RH-TETRA-s-f	Side	380-430 MHz	100000428
			PCPI-RH-TETRA-l-h	Side	430-470 MHz	100000442	PCPO-RH-TETRA-l-h	Side	430-470 MHz	100000443
			PCPI-RH-TETRA-s-f-BC	Back	380-430 MHz	100000468				
PCPI-RH-TETRA-l-h-BC	Back		430-470 MHz	TBD						
Accessories		PATCH-WAMO	---	---	100000511	PATCH-WAMO	---	---	100000511	
						PATCH-MAMO	---	---	100000447	
Electrical Characteristics		380-470 MHz				380-470 MHz				
Frequency		380-430 MHz or 430-470 MHz (see ordering options)				380-430 MHz or 430-470 MHz (see ordering options)				
Impedance		Nom. 50Ω				Nom. 50Ω				
Polarization		Circular (Left-Hand or Right-Hand)				Circular (Left-Hand or Right-Hand)				
Gain		Approx. 7 dBic				Approx. 7 dBic				
Half Power Beamwidth		Approx. 80° (H- and E-plane)				Approx. 80° (H- and E-plane)				
Bandwidth		≥ 50 MHz				≥ 50 MHz				
SWR		≤ 2				≤ 2				
Max. Power		100 W				100 W				
Intermodulation		Not rated				Not rated				
Mechanical Characteristics		-30° to +75° C (-22° to +167° F)				-30° to +75° C (-22° to +167° F)				
Temperature Range		N-Female				N-Female				
Connector		---				173 N @ 160 km/hr (100 mph)				
Wind Load		Marine White				Marine White				
Colour		ABS (White)				ABS (White)				
Materials	Radome	Aluminium				Aluminium				
	Chassis	Approx. 345 x 345 x 60 mm (13.6 x 13.6 x 2.4 in)				Approx. 345 x 345 x 60 mm (13.6 x 13.6 x 2.4 in)				
Dimensions (Width x Length x Height)		Approx. 2.3 kg (5.1 lbs)				Approx. 2.3 kg (5.1 lbs)				
Weight		For mounting on wall or ceiling Ø5 mm (3 holes)				For mounting on wall Ø5 mm (3 holes) or mast on 40-55 mm diameter mast tube				
Mounting										



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Public Safety

Model Number		PCPI-70-xH				PCPI-70-900-xHCP			
Description		Indoor Left or Right Hand Circularly Polarized Patch Antenna for the 450 MHz Band				Indoor Left or Right Hand Circularly Polarized Patch Antenna for the 450 MHz and RHCP for 900 MHz Band			
Features		<ul style="list-style-type: none">• Low profile antenna for the 450 MHz band• Patch antenna for indoor use• Circularly polarized to avoid out-of-phase signals• Reduces flutter considerably• Specifically designed for closed rooms• Full size 1/2 λ patch antennas• Carefully sealed with a discreet cover• Side connector enables mounting close to wall or ceiling• Chassis also available in stainless steel• Connection also available on back side				<ul style="list-style-type: none">• Low profile antenna for the 450 MHz and 900 MHz band• 900 MHz band is fixed RHCP• Circularly polarized to avoid out-of-phase signals• Reduces flutter considerably• Specifically designed for closed rooms• The two built-in antennas are combined with low insertion loss, built-in diplexer, allowing for one download cable• Carefully sealed with a discreet cover• Side connector enables mounting close to wall or ceiling• Chassis also available in stainless steel			
Image									
Ordering Designations STANDARD ANTENNA	Polarization								
	Left-Hand Circularly Polarized	Type	Conn.	Frequency	Product No.	Type	Conn.	Frequency	Product No.
		PCPI-70-LH-s	Side	380-400 MHz	100000146	PCPI-70-900-LHCP-s	Side	380-400 MHz	100000248
		PCPI-70-LH-f	Side	410-430 MHz	100000147	PCPI-70-900-LHCP-f	Side	410-430 MHz	100000249
PCPI-70-LH-l		Side	430-450 MHz	100000148	PCPI-70-900-LHCP-l	Side	430-450 MHz	100000250	
Right-Hand Circularly Polarized	PCPI-70-LH-h	Side	450-470 MHz	100000149	PCPI-70-900-LHCP-h	Side	450-470 MHz	100000251	
	PCPI-70-LH-s-BC	Back	380-400 MHz	100000337					
	PCPI-70-LH-f-BC	Back	410-430 MHz	100000338					
	PCPI-70-LH-l-BC	Back	430-450 MHz	100000339					
Ordering Designations STAINLESS STEEL ANTENNA	Left-Hand Circularly Polarized	PCPI-70-LH-h-BC	Back	450-470 MHz	100000340				
		PCPI-70-RH-s	Side	380-400 MHz	100000145	PCPI-70-900-RHCP-s	Side	380-400 MHz	100000252
		PCPI-70-RH-f	Side	410-430 MHz	100000143	PCPI-70-900-RHCP-f	Side	410-430 MHz	100000253
		PCPI-70-RH-l	Side	430-450 MHz	100000144	PCPI-70-900-RHCP-l	Side	430-450 MHz	100000254
Right-Hand Circularly Polarized	PCPI-70-RH-h	Side	450-470 MHz	100000150	PCPI-70-900-RHCP-h	Side	450-470 MHz	100000255	
	PCPI-70-RH-s-BC	Back	380-400 MHz	100000333					
	PCPI-70-RH-f-BC	Back	410-430 MHz	100000334					
	PCPI-70-RH-l-BC	Back	430-450 MHz	100000335					
	Left-Hand Circularly Polarized	PCPI-70-RH-h-BC	Back	450-470 MHz	100000336				
		PCPI-70R-LH-s	Side	380-400 MHz	100000302	PCPI-70R-900-LHCP-s	Side	380-400 MHz	100000256
		PCPI-70R-LH-f	Side	410-430 MHz	100000303	PCPI-70R-900-LHCP-f	Side	410-430 MHz	100000257
		PCPI-70R-LH-l	Side	430-450 MHz	100000304	PCPI-70R-900-LHCP-l	Side	430-450 MHz	100000258
	Right-Hand Circularly Polarized	PCPI-70R-LH-h	Side	450-470 MHz	100000305	PCPI-70R-900-LHCP-h	Side	450-470 MHz	100000259
		PCPI-70R-RH-s	Side	380-400 MHz	100000306	PCPI-70R-900-RHCP-s	Side	380-400 MHz	100000260
		PCPI-70R-RH-f	Side	410-430 MHz	100000151	PCPI-70R-900-RHCP-f	Side	410-430 MHz	100000261
		PCPI-70R-RH-l	Side	430-450 MHz	100000307	PCPI-70R-900-RHCP-l	Side	430-450 MHz	100000262
		PCPI-70R-RH-h	Side	450-470 MHz	100000152	PCPI-70R-900-RHCP-h	Side	450-470 MHz	100000263
		450 MHz				450 MHz 900 MHz			
		380-400, 410-430, 430-450 or 450-470 MHz (see ordering options)				380-400, 410-430, 430-450 or 450-470 MHz 880-960 MHz			
		Nom. 50Ω				Nom. 50Ω			
Impedance		Circular (Left-Hand or Right-Hand)				Circular (Left-Hand or Right-Hand)			
Polarization		Approx. 7 dBic 3 dBd				Approx. 2 dBic 0 dBd ±3 dB			
Gain		Approx. 80° (H- and E-plane)				Approx. 60° (H- and E-plane)			
Half Power Beamwidth		≥ 20 MHz @ SWR ≤ 1.8				≥ 20 MHz @ SWR ≤ 1.8 ≥ 80 MHz @ SWR ≤ 1.8			
Bandwidth		≤ 1.5 f.res.				≤ 1.5 f.res.			
SWR		100 W				35 W			
Max. Power		Not rated				Not rated			
Intermodulation									
Mechanical Characteristics									
Temperature Range		-30° to +75° C (-22° to +167° F)				---			
Connector		N-Female				N-Female			
Colour		Marine White				Marine White			
Materials		Radome: PS (White); Chassis: Aluminum				Radome: PS (White); Chassis: Aluminium			
Dimensions (Width x Length x Height)		Approx. 415 x 415 x 25 mm (16.3 x 16.3 x 1.0 in)				Approx. 415 x 415 x 70 mm (16.3 x 16.3 x 2.8 in)			
Weight		Approx. 1.8 kg (4 lbs)				Approx. 2.0 kg (4.4 lbs)			
Mounting		For mounting on wall or ceiling Ø4.5 x 20 mm (4 holes)				For mounting on wall or ceiling Ø4.5 x 20 mm (4 holes)			
Electrical Characteristics for Built-In Diplexer						DIPX 500/800			
Frequency		---				Low Port: 0-500 MHz High Port: 800-130 MHz			
Max. Input Power		---				35 W each port			
Insertion Loss		---				≤ 0.5 dB ≤ 0.5 dB			
Isolation		---				Low to High Port: ≥ 45 dB			
Temperature Range		---				-30° to +75° C (-22° to +167° F)			


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Public Safety

Model Number		5047000	5047420
Description		1-Band, 1-Port, Microcell Panel, VPOL, 106°, 380-400 MHz, 4.5 dBi	1-Band, 1-Port, Microcell Panel, VPOL, 106°, 410-430 MHz, 4.5 dBi
Features		<ul style="list-style-type: none"> • Single band, vertically polarized UHF panel antenna • For indoor/outdoor use • Designed to provide fill-in coverage in TETRA networks • Easy to install using the integrated wall mounting 	<ul style="list-style-type: none"> • Single band, vertically polarized UHF panel antenna • For indoor/outdoor use • Designed to provide fill-in coverage in TETRA networks • Easy to install using the integrated wall mounting
Image			
Ordering Designation		Options	Model Number
		Antenna with N-Type Connector	5047000
		Antenna with 4.1/9.5 Connector	5047000-mDIN
		Antenna with 7/16-DIN Connector	5047000-DIN
Electrical Characteristics			
Frequency		380-400 MHz	410-430 MHz
Impedance		50Ω	50Ω
Polarization		Vertical	Vertical
Gain		4.5 dBi	4.5 dBi
Half Power Beamwidth - Horizontal		106°	106°
Half Power Beamwidth - Vertical		112°	112°
VSWR		< 1.5:1	< 1.5:1
Max. Power		50 W	50 W
Intermodulation		-143 dBc <i>IM value for N-Type only applicable at date of manufacture</i>	-143 dBc <i>IM value for N-Type only applicable at date of manufacture</i>
Front-to-Back Ratio		> 10 dB	> 10 dB
Mechanical Characteristics			
Connector		(1x) N-Type, 4.1/9.5 or 7/16-DIN Female, on 0.5 m (19.7 in) RG303 cable	(1x) N-Type, 4.1/9.5 or 7/16-DIN Female, on 0.5 m (19.7 in) RG303 cable
Colour		White	White
Materials	Radome	UV Resistant, Halogen-Free FR ABS, UL94V-0, CAA No. 8 Sec. 2.2b, FAR 25.853b	UV Resistant, Halogen-Free RF ABS, UL94V-0, CAA No. 8 Sec. 2.2b, FAR 25.853b
	Chassis	Aluminum	Aluminum
Dimensions (Length x Width x Height)		305 x 225 x 60 mm (12.0 x 8.9 x 2.4 in)	305 x 225 x 60 mm (12.0 x 8.9 x 2.4 in)
Weight		1.1 kg (2.4 lbs)	1.1 kg (2.4 lbs)
Mounting		Integrated wall mounting bracket	Integrated wall mounting bracket

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Public Safety

Model Number		PCPI-800-xH									
Description		Indoor Left or Right Hand Circularly Polarized Patch Antenna for the 800 MHz Band									
Features		<ul style="list-style-type: none"> • Low profile antenna for the 800 MHz band • Patch antenna for indoor use • Circularly polarized to avoid out-of-phase signals • Specially designed for closed rooms • Carefully sealed with a discreet white cover • Side connector enables mounting close to wall or ceiling 									
Image											
Ordering Designations		<table> <tr> <th>Type</th><th>Polarization</th><th>Product No.</th></tr> <tr> <td>PCPI-800-LH</td><td>Left-Hand</td><td>100000396</td></tr> <tr> <td>PCPI-800-RH</td><td>Right-Hand</td><td>100000397</td></tr> </table>	Type	Polarization	Product No.	PCPI-800-LH	Left-Hand	100000396	PCPI-800-RH	Right-Hand	100000397
Type	Polarization	Product No.									
PCPI-800-LH	Left-Hand	100000396									
PCPI-800-RH	Right-Hand	100000397									
Accessories											
Electrical Characteristics		800 MHz									
Frequency		800-880 MHz									
Impedance		Nom. 50Ω									
Polarization		Circular (Left-Hand or Right-Hand)									
Gain		Approx. 7 dBic									
Half Power Beamwidth		Approx. 80° (H- and E-plane)									
Bandwidth		≥ 80 MHz @ SWR ≤ 2									
SWR		≤ 1.5 f.res.									
Max. Power		50 W									
Intermodulation		Not rated									
Mechanical Characteristics											
Temperature Range		---									
Connector		N-Female									
Colour		Marine White									
Materials	Radome	ABS									
	Chassis	Aluminium									
Dimensions (Width x Length x Height)		Approx. 204 x 204 x 28 mm (8.0 x 8.0 x 1.1 in)									
Weight		Approx. 0.4 kg (0.9 lbs)									
Mounting		For mounting on wall or ceiling Ø4.5 x 20 mm (4 holes)									

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Antennas for InBuilding Applications

Omni-Directional Antennas





Small omni-directional antennas for inbuilding DAS and Public Safety applications.




Amphenol®
PRIVATE NETWORKS

iDAS

Model Number		7835700			7825100		
Description		1-Band, 1-Port, Stick Omni, VPOL, 360°, 698-2700 MHz, 3.0-4.0 dBi			1-Band, 1-Port, Stick Omni, VPOL, 360°, 800-2700 MHz, 2.5 dBi		
Features		<ul style="list-style-type: none">Indoor, omni antennaDesigned for pole or wall mount installationAvailable with N-Type, Reverse polarity SMA, 4.1/9.5, or 7/16-DIN connector			<ul style="list-style-type: none">Indoor, omni antennaMounting kits available for ceiling, wall or pole mountingMulti band performance		
Image							
Ordering Designation		Options		Model Number	Options		Model Number
		Antenna with N-Type Connector		7835700	Antenna with N-Type Connector		7825100
		Antenna with 7/16-DIN Connector		7835700-DIN			
		Antenna with 4.1/9.5 Connector		7835700-mDIN			
		Antenna with Reverse Polarity SMA		7835700-RPSMA			
Electrical Characteristics							
Frequency (MHz)		698-960 MHz	1710-2180 MHz	2200-2700 MHz	800-2700 MHz		
Impedance		50Ω			50Ω		
Polarization		Vertical			Vertical		
Gain		3.0-3.5 dBi	3.5 dBi	4.0 dBi	2.5 dBi		
Half Power Beamwidth - Horizontal		360°	360°	360°	360°		
Half Power Beamwidth - Vertical		65-83°	45°	45°	50°		
VSWR		< 1.8:1	< 1.5:1	< 1.8:1	800-960 MHz: < 1.8:1 960-1710 MHz: < 2.5:1 1710-2700 MHz: < 1.8:1		
Max. Power		100 W			50 W		
Intermodulation		-140 dBc <i>IM value for N-Type only applicable at date of manufacture; Intermodulation not applicable to reverse polarity SMA</i>			Not Rated		
Mechanical Characteristics							
Connector		(1x) N-Type, 4.1/9.5, 7/16-DIN or Reverse Polarity SMA Female, Bottom			(1x) N-Type Female, Bottom		
Operating Temperature		-50° to +60° C (-58° to +140° F)			---		
Colour		White			White		
Materials	Radome	ABS			---		
Dimensions		67 x Ø211 mm (2.6 x Ø8.3 in)			209 x Ø30 mm (8.2 x Ø1.2 in)		
Weight		0.3 kg (0.66 lbs)			0.12 kg (0.26 lbs)		
IP Rating		---			IP65		
Mounting		Wall / Pole Mounting Kit Included			Mounting inteface is four Ø3.4 mm (0.1 in) holes equally spaced on a Ø41 mm (1.6 in) bolt circle. Mounting kits are ordered separately (505-173-5-003; XSL9254316; XSL9254317)		




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iDAS

Model Number	7825700																													
Description	2-Band, 1-Port, Stick Omni, VPOL, 360°, 696-960 1710-2700 MHz, 1.87 3.4 dBi																													
Features	<ul style="list-style-type: none">• Dual band, vertically polarized omni antenna• For indoor/outdoor use• Versatile size for a variety of applications• Various mounting kits available for ceiling, wall or pole mounting																													
Image																														
Ordering Designation	<table><tr><th colspan="3">Options</th><th colspan="3">Model Number</th></tr><tr><td colspan="3">Antenna with N-Type Connector</td><td colspan="3">7825700</td></tr><tr><td colspan="3">Antenna with 4.1/9.5 Connector</td><td colspan="3">7825700-mDIN</td></tr><tr><td colspan="3">Antenna with 7/16-DIN Connector</td><td colspan="3">7825700-DIN</td></tr></table>						Options			Model Number			Antenna with N-Type Connector			7825700			Antenna with 4.1/9.5 Connector			7825700-mDIN			Antenna with 7/16-DIN Connector			7825700-DIN		
Options			Model Number																											
Antenna with N-Type Connector			7825700																											
Antenna with 4.1/9.5 Connector			7825700-mDIN																											
Antenna with 7/16-DIN Connector			7825700-DIN																											
Electrical Characteristics																														
Frequency (MHz)	696-960 MHz		1710-2700 MHz																											
	696-806	806-960	1710-1880	1850-1990	1900-2170	2200-2700																								
Impedance	50Ω																													
Polarization	Vertical		Vertical																											
Gain	1.87 dBi	1.24 dBi	2.5 dBi	3.4 dBi	2.8 dBi	2.9 dBi																								
Half Power Beamwidth - Horizontal	360°	360°	360°	360°	360°	360°																								
Half Power Beamwidth - Vertical	87.7°	68.3°	44.4°	40.3°	60.3°	36.1°																								
VSWR	< 2.5:1		< 2.0:1			< 2.5:1																								
Max. Power	50 W																													
Intermodulation	-153 dBc (2x20W) <i>IM value for N-Type only applicable at date of manufacture</i>																													
Mechanical Characteristics																														
Connector	(1x) N-Type, 4.1/9.5 or 7/16-DIN Female, Bottom																													
Colour	White																													
Dimensions	234 x Ø30 mm (9.2 x Ø1.2 in)																													
Weight	0.11 kg (0.24 lbs)																													
Wind Load @ 160 km/hr (100 mph)	4N (1.0 lbf)																													
Survival Wind Speed	241 km/hr (150 mph)																													
Environmental Protection	IP54																													
Mounting	Mounting inteface is four Ø3.4 mm (0.1 in) holes equally spaced on a Ø41 mm (1.6 in) bolt circle. Mounting kits are ordered separately (505-173-5-003; XSL9254316; XSL9254317)																													

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Public Safety

Model Number	GPS-4-...																																																																		
Description	Quadrifilar Helix Active Antenna. Active Receiving Antenna for the 1575 MHz NAVSTAR GPS Satellite Navigational System.																																																																		
Features	<ul style="list-style-type: none">• Single Band, right-hand circular polarized, omni antenna• Quadrifilar helix antenna element provides full hemispherical coverage• Built-in high gain, low noise amplifier• High rejection of cross-polarized reflections prevents fading caused by multipath propagation• Designed to withstand tough environments• Input filter for thorough RF overload protection• Comprehensive range of mounting brackets available• Available in marine white, black or sand																																																																		
Image	<div> Marine White</div> <div> Black</div> <div> Sand</div>																																																																		
Ordering Designation	<table><tr><th rowspan="2">Supply Voltage</th><th rowspan="2">Connector</th><th colspan="2">Marine White (Standard)</th><th colspan="2">Black</th><th colspan="2">Sand</th></tr><tr><th>Type</th><th>Product No.</th><th>Type</th><th>Product No.</th><th>Type</th><th>Product No.</th></tr><tr><td rowspan="2">3 V DC (3-3.5 V)</td><td>FME</td><td>GPS-4-3-V</td><td>112000015</td><td>GPS-4-3-V-B</td><td>112000067</td><td>GPS-4-3-V-S</td><td>112000068</td></tr><tr><td>TNC</td><td>GPS-4-3-V-TNC</td><td>112000010</td><td>---</td><td>---</td><td>---</td><td>---</td></tr><tr><td rowspan="2">5 V DC (4.5-5.5 V)</td><td>FME</td><td>GPS-4</td><td>112000017</td><td>GPS-4-B</td><td>112000065</td><td>GPS-4-S</td><td>112000066</td></tr><tr><td>TNC</td><td>GPS-4-5-V-TNC</td><td>112000014</td><td>---</td><td>---</td><td>---</td><td>---</td></tr><tr><td rowspan="2">12 V DC (9-15 V)</td><td>FME</td><td>GPS-4-12-V</td><td>112000016</td><td>GPS-4-12-V-B</td><td>112000069</td><td>GPS-4-12-V-S</td><td>112000070</td></tr><tr><td>TNC</td><td>GPS-4-12-V-TNC</td><td>112000012</td><td>---</td><td>---</td><td>---</td><td>---</td></tr></table>								Supply Voltage	Connector	Marine White (Standard)		Black		Sand		Type	Product No.	Type	Product No.	Type	Product No.	3 V DC (3-3.5 V)	FME	GPS-4-3-V	112000015	GPS-4-3-V-B	112000067	GPS-4-3-V-S	112000068	TNC	GPS-4-3-V-TNC	112000010	---	---	---	---	5 V DC (4.5-5.5 V)	FME	GPS-4	112000017	GPS-4-B	112000065	GPS-4-S	112000066	TNC	GPS-4-5-V-TNC	112000014	---	---	---	---	12 V DC (9-15 V)	FME	GPS-4-12-V	112000016	GPS-4-12-V-B	112000069	GPS-4-12-V-S	112000070	TNC	GPS-4-12-V-TNC	112000012	---	---	---	---
Supply Voltage	Connector	Marine White (Standard)		Black		Sand																																																													
		Type	Product No.	Type	Product No.	Type	Product No.																																																												
3 V DC (3-3.5 V)	FME	GPS-4-3-V	112000015	GPS-4-3-V-B	112000067	GPS-4-3-V-S	112000068																																																												
	TNC	GPS-4-3-V-TNC	112000010	---	---	---	---																																																												
5 V DC (4.5-5.5 V)	FME	GPS-4	112000017	GPS-4-B	112000065	GPS-4-S	112000066																																																												
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12 V DC (9-15 V)	FME	GPS-4-12-V	112000016	GPS-4-12-V-B	112000069	GPS-4-12-V-S	112000070																																																												
	TNC	GPS-4-12-V-TNC	112000012	---	---	---	---																																																												
Electrical Characteristics																																																																			
Frequency	1575 MHz																																																																		
Polarization	Circular Right Hand																																																																		
Coverage	Hemispherical																																																																		
Impedance	50Ω (Nominal)																																																																		
Gain In Axial Direction	> 32 dBi																																																																		
Cross Polarization Att.	> 10 dB																																																																		
Selectivity	> 20 dB down at ±100 MHz																																																																		
Intermodulation	N/A																																																																		
Built-In Amplifier																																																																			
Gain	> 30 dB																																																																		
Noise Figure	< 3 dB (including input filter); Typical approximately 3 dB																																																																		
1 dB Compression Point	> 10 dBm																																																																		
Out of Band Attenuation	0.03 - 1 GHz : > 40 dB down 2 - 10 GHz : > 40 dB down																																																																		
SWR (Output)	< 2.0																																																																		
Supply Voltage	GPS 4/3 V		3-3.5 V DC																																																																
	GPS 4		5 ±0.5 V DC																																																																
	GPS 4/12 V		9-15 V DC																																																																
Current Consumption	Approximately 44 mA																																																																		
EMC	Full Protection (IEC 801, IEC 255)																																																																		

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Public Safety

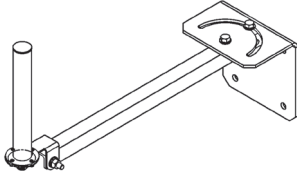
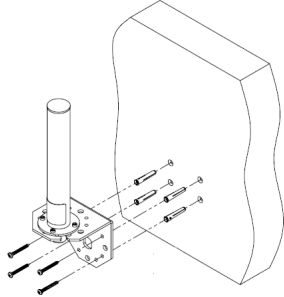
Model Number	GPS-4-...		
Mechanical Characteristics			
Materials (Antenna Dome)	Weather-Resistant Low-Loss Plastic		
Antenna Colour	Marine White, Black or Sand		
Insulation	Connector ground terminal galvanically insulated from mounting hardware		
Wind Surface	Approximately 0.0072 m² (0.08 ft²)		
Max Wind Speed	200 km/hr (124.27 mph)		
Wind Load	Approximately 9.6 N at 150 km/hr (93.21 mph)		
Connector	FME-Male (Pin) or TNC-Female		
Suggested Downlead Cable	< 10 m: RG 58; 10-30 m: RG 213		
Total Height / Diameter	Approximately 23 cm (9.06 in) / 33 mm (1.3 in)		
Weight	Approximately 150 g (0.33 lbs)		
Mounting	Vertical on 1" water pipe or on 1" Mounting Bracket		
Mounting Kits	Type	Product Number	Description
	FLG	110000036	Deck-mounting flange for antennas for 1" water pipe fixation
	SMR1	110000045	Clamp for side mounting on mast
	SMR2	110000046	Side-mounting clamp for mounting across windex-plate
	LW 1"	---	---
	MariFix 1	110000050	Heavy-duty, chromed brass ratchet mount for deck or bulkhead mounting
	MariFix 2	110000048	Medium-duty, polycarbonate ratchet mount for deck or bulkhead mounting
	ADT	110000049	Adapting tube
Environmental Characteristics			
Temperature Range	-50° to +70° C (-58° to +158° F)		
IP Rating	IP56 (IP66 upon request)		

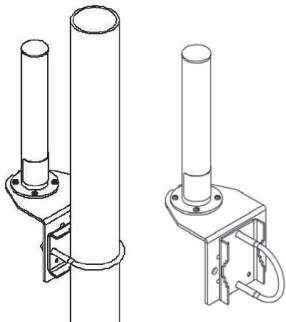


FME - SYSTEM ACCESSORIES			
FME - Cable		FME - Connector	
Type	Product No.	Type	Product No.
1 m FME FEMALE	130000437	FME FEMALE - FME FEMALE	130000583
2 m FME FEMALE	130000447	FME MALE - PROLONGATION MALE	130000565
3 m FME FEMALE	130000457	FME MALE - N-TYPE MALE	130000571
4 m FME FEMALE	130000466	FME MALE - SMA FEMALE	130000578
5m FME FEMALE	130000474	FME MALE - BNC MALE	130000566
6 m FME FEMALE	130000483	FME MALE - TNC MALE	130000569
4 m FME - White FEMALE	110000064	FME MALE - UHF MALE	130000572
6 m FME - White FEMALE	110000066	FME MALE - MINI UHF MALE	130000573
12 m FME - White FEMALE	110000068	FME MALE - ELBOW MINI UHF MALE	130000582
18 m FME - White FEMALE	110000069		

Quoted performance parameters are provided to offer typical or range values only and may vary as a result of normal manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to product may be made without notice.

Omni-Directional Antennas: Mounting Bracket Kits

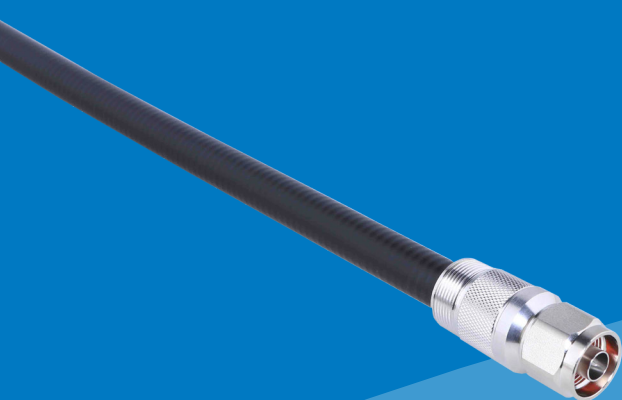
Model Number	505-173-5-003	XSL9254316
Description	Universal Wall or Ceiling Mounting Bracket for Small Omni Antennas	Wall Mounting Kit for Small Omni Antennas
		
Fits Pipe Diameter	Wall Mounted	Wall Mounted
Weight	2.7 kg (6 lbs)	0.5 kg (1.1 lbs)

Model Number	XSL9254317
Description	Wall or Pole Mounting Kit for Small Omni Antennas
	
Fits Pipe Diameter	30-53 mm (1.2-2.1 in)
Weight	0.5 kg (1.1 lbs)

Jumper Cables

Designed for indoor applications with high flexibility and small bending diameters.

Available in a variety of cable lengths and connector combinations.



FIRE RESISTANT

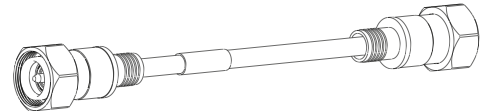
1/4" Superflexible Jumper Cable

Low Smoke Zero Halogen (LSZH), DC-3 GHz, Low PIM

Available lengths (meters) = Replace (x) in the model number with 1.0, 1.5, 2.0, 3.0, 4.5, 6.0 & 7.5

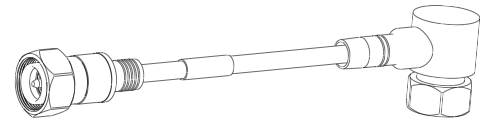
4.3/10 Male Screw to 4.3/10 Male Screw

AAS-14HFFRD02-43SM43SM-xM



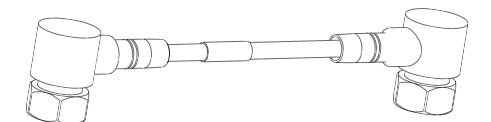
4.3/10 Male Screw to 4.3/10 Male Screw Right Angle

AAS-14HFFRD02-43SM43SMR-xM



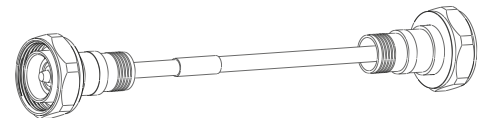
4.3/10 Male Screw Right Angle to 4.3/10 Male Screw Right Angle

AAS-14HFFRD02-43SMR43SMR-xM



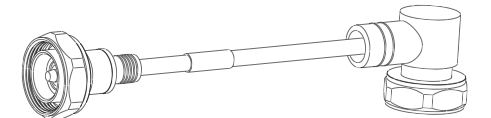
7/16-DIN Male to 7/16-DIN Male

AAS-14HFFRD02-DMDM-xM



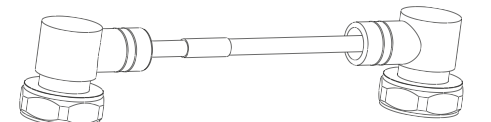
7/16-DIN Male to 7/16-DIN Male Right Angle

AAS-14HFFRD02-DMDMR-xM



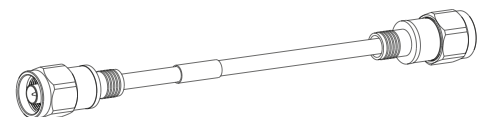
7/16-DIN Male Right Angle to 7/16-DIN Male Right Angle

AAS-14HFFRD02-DMRDMR-xM



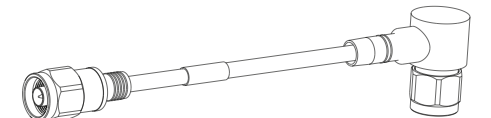
N Male to N Male

AAS-14HFFRD02-NMNM-xM



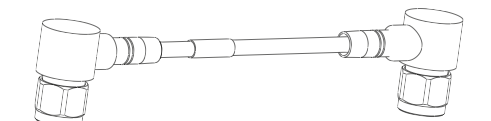
N Male to N Male Right Angle

AAS-14HFFRD02-NMNMR-xM



N Male Right Angle to N Male Right Angle

AAS-14HFFRD02-NMRNMR-xM



FIRE RESISTANT

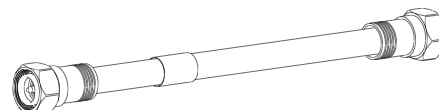
1/2" Superflexible Jumper Cable

Low Smoke Zero Halogen (LSZH), DC-3 GHz, Low PIM

Available lengths (meters) = Replace (x) in the model number with 1.0, 1.5, 2.0, 3.0, 4.5, 6.0 & 7.5

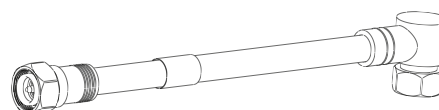
4.3/10 Male Screw to 4.3/10 Male Screw

AAS-12HFFRD02-43SM43SM-xM



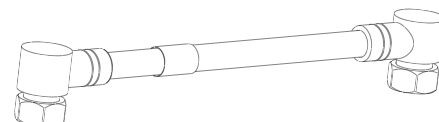
4.3/10 Male Screw to 4.3/10 Male Screw Right Angle

AAS-12HFFRD02-43SM43SMR-xM



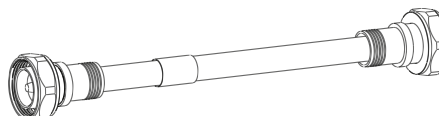
4.3/10 Male Screw Right Angle to 4.3/10 Male Screw Right Angle

AAS-12HFFRD02-43SMR43SMR-xM



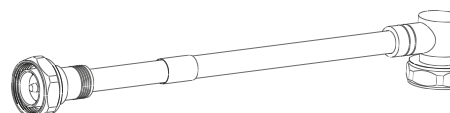
7/16-DIN Male to 7/16-DIN Male

AAS-12HFFRSD02-DMDM-xM



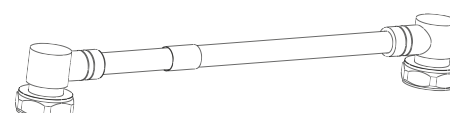
7/16-DIN Male to 7/16-DIN Male Right Angle

AAS-12HFFRSD02-DMDMR-xM



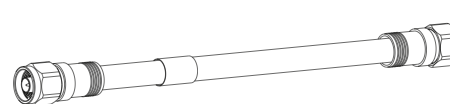
7/16-DIN Male Right Angle to 7/16-DIN Male Right Angle

AAS-12HFFRSD02-DMRDMR-xM



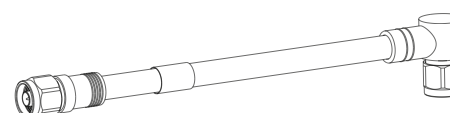
N Male to N Male

AAS-12HFFRSD02-NMNM-xM



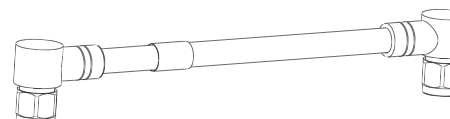
N Male to N Male Right Angle

AAS-12HFFRSD02-NMNMR-xM



N Male Right Angle to N Male Right Angle

AAS-12HFFRSD02-NMRNMR-xM



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This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There are no margins, text, or other markings on the paper.

Amphenol Private Networks

Making the World Smaller

The **Amphenol Private Networks** Group consisting of the brands Procom, Skymasts and Jaybeam, offers the strongest and most versatile portfolio of antenna equipment. Amphenol Private Networks (APN) component programme includes couplers and power splitters, dummy loads & attenuators, isolators, circulators & power monitors. APN also offers a very high performance, and a high quality range of combining and filtering equipment produced by Procom in Denmark. With one of the most respected product lines on the market, APN continues connecting people with technology.



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Amphenol Antenna Solutions is a leading global solutions provider for wireless infrastructure systems. Whether it's a complex base station, a small DAS network or an InBuilding System, we supply over 6,000 products with best-in-class performance. With Amphenol Antenna Solutions (AAS), OEMs and operators have the convenience of a one-stop shop, not only for quality antennas, but for transmission line products like feeder cable, hybrid fiber, surge arrestors and connectors as well as RF peripherals like TMAs, combiners, couplers and splitters. And, all products support next generation wireless communication systems. AAS offers years of expertise in product design, development and engineering along with an unparalleled commitment to customer service.



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