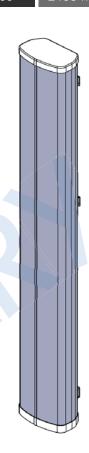


2433 mm

# HEX658LU0100G

### TRI BAND | 6-PORT PANEL | XPOL | 65° | 2433 MM (95.8 IN)

	Frequency Range (MHz)	617-906	617-906	1695-2700		
PRODUCT OVERVIEW	Trequency Narige (Wiriz)	017-700	017-700	1073-2700		
	Array	■ R1	■ R2	■ Y1		
	Connector	1-2	3-4	5-6		
	Connector Type	4.3-10 Female Long Neck	4.3-10 Female Long Neck	4.3-10 Female Long Neck		
	Polarization	XPOL	XPOL	XPOL		
	Azimuth Beamwidth (avg)	65°	65°	65°		
	Electrical Downtilt	0-10°	0-10°	2-10°		
	Dimensions	2433 x 660 x 214 mm (95.8 <b>x 26.0 x 8.4</b> in)				



## **ELECTRICAL SPECIFICATIONS** Low Band

	R1		R2
--	----	--	----

Frequency Range		MHz		(2x) 617-906		
Frequency Sub-Range		MHz	617-698	698-798	800-906	
Polarizatio	on			(2x) ±45°		
	Low Tilt	dBi	15.1	15.2	15.5	
	Mid Tilt	dBi	15.2	15.3	15.6	
Gain	High Tilt	dBi	15.3	15.4	15.7	
	Over all Tilts	dBi	15.2 ± 0.6	15.3 ± 0.5	15.6 ± 0.5	
Azimuth E	Beamwidth (3 dB)	degrees	68.9 ± 2.6	68.6 ± 3.2	68.4 ± 4.3	
Elevation	Beamwidth (3 dB)	degrees	10.0 ± 0.7	9.0 ± 0.5	8.0 ± 0.4	
Electrical Downtilt		degrees	0-10			
Impedance		Ohms	50			
VSWR			1.5:1			
	termodulation for 2x20 W Carriers	dBm (dBc)		< -110 (< -153)		
Front-to-Back Ratio ± 30° @ 180° from boresite		dB	> 27.7	> 27	> 26.0	
Upper Sidelobe Rejection 20° Sector Above Main Beam		dB	> 20.6	> 19	> 17.9	
Cross Polar Discrimination at Mechanical Boresight (0°)		dB	> 20.8	> 21	> 23.1	
Maximum	Power Per Port	Watts	500			
Interband/Intraband Isolation		dB	25/30	25/30	25/30	

Standard values based on NGMN-P-BASTA version 9.6 recommendation.

Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, 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 products may be made without notice.



2433 mm

# HEX658LU0100G

### TRI BAND | 6-PORT PANEL | XPOL | 65° | 2433 MM (95.8 IN)

ELECTRICAL SPECIFICATIONS Mid Band Y1							
Frequency	v Range	MHz	1695-2700				
Frequency Sub-Range MHz			1695-1880 1850-1990		1920-2200	2300-2700	
Polarization			±45°				
	Low Tilt	dBi	16.4	17.0	17.3	17.4	
	Mid Tilt	dBi	16.5	17.1	17.4	17.5	
Gain	High Tilt	dBi	16.6	17.1	17.5	17.6	
	Over all Tilts	dBi	16.5 ± 0.5	16.7 ± 0.8	17.0 ± 0.8	17.2 ± 0.7	
Azimuth Beamwidth (3 dB)		degrees	58.4 ± 4.4	61.2 ± 7.6	60.2 ± 6.6	58.5 ± 5.0	
Elevation Beamwidth (3 dB)		degrees	5.6 ± 0.3	5.2 ± 0.2	5.2 ± 0.8	5.0 ± 0.7	
Electrical Downtilt de		degrees	2-10				
Impedanc	e	Ohms	50				
VSWR			1.5:1				
	termodulation for 2x20 W Carriers	dBm (dBc)	< -110 (< -153)				
Front-to-Back Ratio ± 30° @ 180° from boresite		dB	> 24.8	> 24.7	> 24.6	> 24.6	
Upper Sidelobe Rejection 20° Sector Above Main Beam		dB	> 17.0	> 16.4	> 15.4	> 15.0	
Cross Polar Discrimination at Mechanical Boresight (0°)		dB	> 19.4	> 20.4	> 18.8	> 18.0	
Maximum Power Per Port Watts		300					
Interband/Intraband Isolation c		dB	25/30	25/30	25/30	25/30	

Standard values based on NGMN-P-BASTA version 9.6 recommendation.



2433 mm

# HEX658LU0100G

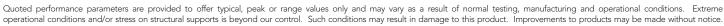
**Amphenol** 

TRI BAND | 6-PORT PANEL | XPOL | 65° | 2433 MM (95.8 IN)

#### **RET ACTUATOR**

Amphenol's **RET-READY** antennas are delivered with the RET Actuator already installed and pre-commissioned with all antenna parameters. Every RET device is factory configured and calibrated so the antenna is ready to be used once delivered to the site which means that there is no need for further installation of RET devices or for programming their configuration or for running a calibration process.

Input Voltage		Vdc	10-30
Power	Idle State, maximum	Watts	0.5
Consumption	Normal Conditions, maximum	Watts	10.0
Protocol			3GPP/AISG v2.0 (Single RET)
RET Interface			DIN Male and DIN Female
Field Replaceable Unit			No





2433 mm

# HEX658LU0100G

TRI BAND | 6-PORT PANEL | XPOL | 65° | 2433 MM (95.8 IN)



ARRAY LAYOUT	ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE
	<b>■</b> R1	617-906	1-2	4.3-10 Female Long Neck
	■ R2	617-906	3-4	4.3-10 Female Long Neck
	■ Y1	1695-2700	5-6	4.3-10 Female Long Neck



2433 mm

# HEX658LU0100G

### TRI BAND | 6-PORT PANEL | XPOL | 65° | 2433 MM (95.8 IN)

#### **MECHANICAL SPECIFICATIONS**

Amphenol ANTENNA SOLUTIONS

B	Length		mm (in)	2433 (95.8)		
Antenna	Width		mm (in)	660 (26.0)		
₹	Depth		mm (in)	214 (8.4)		
Net W	Net Weight - Antenna Only		kg (lbs)	TBD		
	Calculation Windload Frontal		km/h (mph)	161 (100)		
Windl			N (lbf)	1364 (308)		
		Lateral	N (lbf)	240 (54)		
Surviv	Survival Wind Speed		km/h (mph)	241 (150)		
	Connector Type  Quantity  Position			4.3-10 Female		
Conne				6		
				Bottom		
Rador	Radome Color			ANSI 70 Gray		
Rador	me Material			UV Stabilized ABS or Hips		
Lightr	ning Protection (Ground	ding Type)	- 1	Direct Ground		
	Length		mm (in)	TBD		
ם	Width		mm (in)	TBD		
Shipping	Depth		mm (in)	TBD		
Ŋ	Shipping Weight		kg (lbs)	TBD		
	Shipping Volume		m³ (ft³)	TBD		



2433 mm

# HEX658LU0100G

**Amphenol** 

### TRI BAND | 6-PORT PANEL | XPOL | 65° | 2433 MM (95.8 IN)

# $\begin{tabular}{ll} \textbf{ACCESSORIES} & \textbf{All accessories are ordered separately unless otherwise indicated} \\ \end{tabular}$

MODEL NUMBER	DESCRIPTION	FITS PIPE DIAMETER	WEIGHT
MKS10P02	3-point pole mounting bracket kit	Ø40 to Ø115 mm (Ø1.57 to Ø4.5 in)	6.4 kg (14.0 lbs)
MK\$10T02	3-point pole mounting and downtilt bracket kit	Ø50 to Ø115 mm ( <b>Ø2.0 to</b> Ø4.5 i <b>n</b> )	9.3 kg (20.6 lbs)

### **INSTALLATION** Please read all installation notes before installing this product.



Always attach the antenna using all mounting points.

Do not install the antenna with the connectors facing upwards.