

XXXX-Pol Panel 790-960/2x1710-2170/2.5-2.69 65°/65° /65° 17.5/17.5/17.5dBi 0-10°/2-12°/2-12°

Introduction:

This Quadruple Broadband antenna supports 790-960MHz, 2x1710-2170MHz and 2500-2690MHz under one radome and keeps independent variable down tilt capability for all four arrays. The 2.6GHz array supports both WiMAX and LTE2.6 applications.

iRET functionality is supported

Features:

- Four independent arrays under one radome
- Aperture Coupled Patch technology for best in class performance
- No iRET motor attached

ELECTRICAL SPECIFICATIONS

Frequency range (MHz)	790-960		2x1710-2170			2500-2690
Frequency band (MHz)	790-894	870-960	1710-1880	1850-1990	1900-2170	2500-2690
Gain (dBi/dBd)	16.4/14.3	17.5/15.4	17.2/15.1	17.2/15.1	17.5/15.4	17.6/15.5
Polarization	Dual linear ±45°		Dual linear ±45°			Dual linear ±45°
Impedance (Ω)	50		50			50
VSWR	<1.5:1		<1.5:1			<1.5:1
Horizontal beam width, -3dB (°)	72	67	63	62	60	62
Front to back ratio (dB)	28	30	36	34	36	30
• copolar 180°±30°	27	28	29	29	29	28
• total power 180°±30°	26	25	28	28	28	27
Cross polar discrimination (XPD)						
•Boresight 0°(dB)	13	13	13	13	13	13
•Sector ±60°(dB)	-	-	-	-	-	-
Vertical beam width, -3dB (°)	7.5	6.5	6.9	6.5	6.2	5.0
Electrical down tilt (°)	0 – 10		2 - 12			2 - 12
1 st Upper Side Lobe suppression, typical, (dB)	>15	>15	>15	>15	>15	>15
Isolation, Intersystem, (dB)	>30	>30	>30	>30	>30	>30
Isolation, Interband, typical, (dB)	>30dB (790-960 / 1710-2170 / 2500-2690MHz)					
Intermodulation Products 3rd Order, 2 x 43dBm, (dBc)	<-153		<-153			<-153
Intermodulation Products 5 th Order, 2 x 43dBm, (dBc)	-		<-160			<-160
Power handling average per port (W)	300		250			250
Power handling total (W)	600		1000			500



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MECHANICAL SPECIFICATIONS

Connector	8x 7/16 DIN Female
Connector position	Bottom
Dimensions, HxWxD, mm (in)	2658x330x155mm(105"x13"x6")
Weight, with brackets, kg (lbs)	32.8 (72.2)
Weight, without brackets, kg (lbs)	27.3 (60.1)
Packing size, HxWxD, mm (ft)	2874x400x280mm(112"x15.8"x11")
Packing weight, kg (lbs)	37.1 (83.9)
Wind load, at 150kmh, (N)	frontal: 999 lateral: 136 rear side: 1062
Maximum wind speed, kmh (mph)	151 (93)
Survival wind speed, kmh (mph)	201 (125)
Radome material	ASA
Radome color	Light Gray (RAL 7035)
Operating temperature, °C	-40°C to +60°C
Environmental conditions	ETS 300 019-1-4 class 4.1E
Lightning protection	DC Grounded
Mounting	Pre-mounted 7256.00

REMOTE ELECTRICAL TILT

RET module AISG2.0(AISG1.1.)	8510.40
RET module AISG1.1(AISG2.0)	8510.10

INTERFACE VIEW

NOTES

Antenna installations must be grounded according to local and national codes. Do not install or work on antennas near power lines. Install or work on antennas or similar structures out of falling distance of all such lines.

Every electrical and telephone wire is potential dangerous.

RF-connectors torque recommendations must be followed. AISG connectors must be hand tightened. Do not use tools for AISG connectors tightening.

ANTENNA MOUNTS

7454.00A	Triple Mount Bracket
7256.00	Heavy Duty Tilt Bracket Ø1"-Ø4.5"