

XXX-Pol Panel 790-960/1710-2170/2.5-2.69 65°/65°/65 ° 16/16/16dBi 2-9°/2-12°/2-12° HB/LB MUX



## Introduction:

This Triple Broadband antenna combines 790-960MHz and 1710-2170MHz systems into two connectors and still keeps the independent variable down tilt capability on both arrays. The independent 2.6GHz array supports both WiMAX and LTE2.6 applications

## Features:

- Three independent arrays under one radome
- Aperture Coupled Patch technology for best in class performance
- Integrated Diplexer for feeder sharing at 790-960MHz & 1710-2170MHz
- Compatible with Powerwave RET modules

## ELECTRICAL SPECIFICATIONS

Frequency range (MHz)	790-960		1710-2170			2500-2690
Frequency band (MHz)	790-894	870-960	1710-1880	1850-1990	1900-2170	2500-2690
Gain (dBi/dBd)	15.6/13.5	16.0/13.9	15.8/13.7	15.8/13.7	15.9/13.8	15.8/13.7
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	66	63	63	66
Front to back ratio (dB)						
▪ copolar 180°±30°	23	27	27	27	27	27
▪ total power 180°±30°	21	24	25	25	25	25
Cross polar discrimination (XPD)						
▪ Boresight 0° (dB)	13	13	13	13	13	13
▪ Sector ±60° (dB)	-	-	-	-	-	-
Vertical beam width, -3dB (°)	9.9	9.0	8.9	6.6	8.3	7.6
Electrical down tilt (°)	2 – 9		2 - 12			2 - 12
1 <sup>st</sup> 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 <sup>th</sup> Order, 2 x 43dBm, (dBc)	-		<-160			<-160
Power handling average per port (W)	200		200			200
Power handling total (W)	400		400			400



## MECHANICAL SPECIFICATIONS

Connector	4x 7/16 DIN Female
Connector position	Bottom
Dimensions, HxWxD, mm (in)	2053x282x155mm(81"x11"x6")
Weight, with brackets, kg (lbs)	23.8 (52.4)
Weight, without brackets, kg (lbs)	18.4 (40.5)
Packing size, HxWxD, mm (ft)	2192x486x290mm(86"x19"x11")
Packing weight, kg (lbs)	27.3 (60.0)
Wind load, at 150kmh, (N)	frontal: 675 lateral: 143 rear side: 811
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

## 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.**

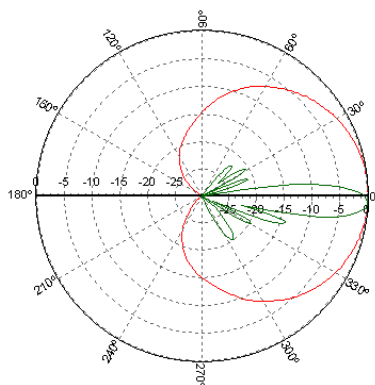
RF-connectors torque recommendations must be followed. AISG connectors must be hand tightened. Do not use tools for AISG connectors tightening.

## REMOTE ELECTRICAL TILT

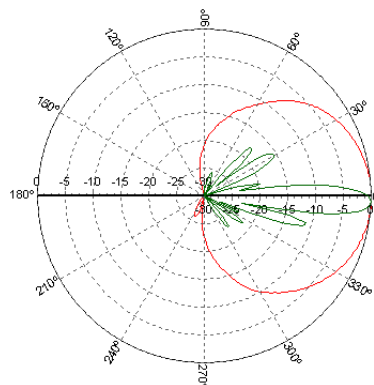
RET module AISG2.0(AISG1.1/Ericsson)	8210.40, 8211.40 8212.40, 8230.40
RET module AISG1.1(AISG2.0/Ericsson)	8210.10, 8211.10 8212.10, 8230.10
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## ANTENNA MOUNTS

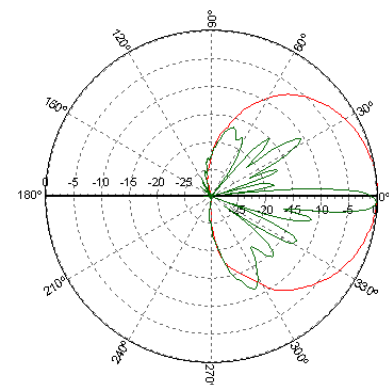
7454.00A	Triple Mount Bracket
7256.00	Heavy Duty Tilt Bracket Ø1"-Ø4.5"



880MHz 2°tt



1880MHz 2°tt



2650MHz 2°tt

