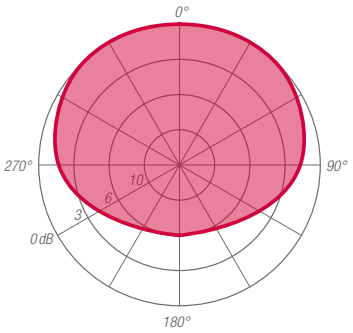
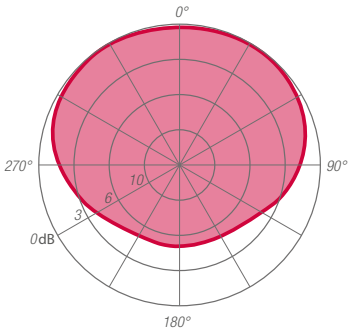
ANTENNA FEATURES

- Double dipole MULTIBAND antenna.
- Broadband 87.5÷108MHz & 174÷240 MHz.
- Vertical polarization.
- Omnidirectional radiation pattern.
- Analogue/Digital Service.

RADIATION PATTERNS (Mid Band)

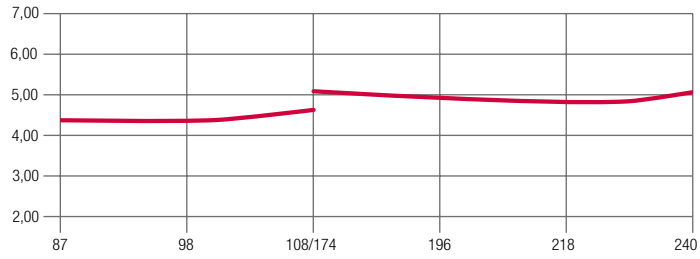


H - Plane FM

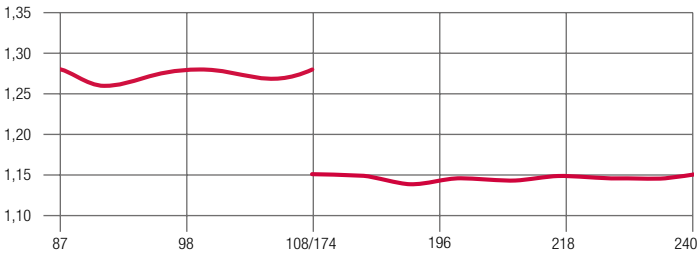


H - Plane DAB

GAIN (dB)



VSWR



ELECTRICAL DATA

WORKING BAND:	87.5 - 108 MHz & 174 - 240 MHz
BANDWIDTH:	VHF band II & VHF band III
GAIN:	FM 4.4 dBd (6.6 dBi) DAB 5.0 dBd (7.2 dBi)
VSWR:	FM ≤ 1.27:1 (-18.5 dB) DAB ≤ 1.15:1 (-23.1 dB)
POLARIZATION:	Vertical
IMPEDANCE:	50 Ohm balanced
HALF POWER BEAMWIDTH:	FM E-Plane - 28° DAB E-Plane 30° H-Plane - 240° H-Plane 220°
LIGHTNING PROTECTION:	All metal parts DC grounded including inner conductors
AVAILABLE VERSION AND CODE:	ADD02242 3XY

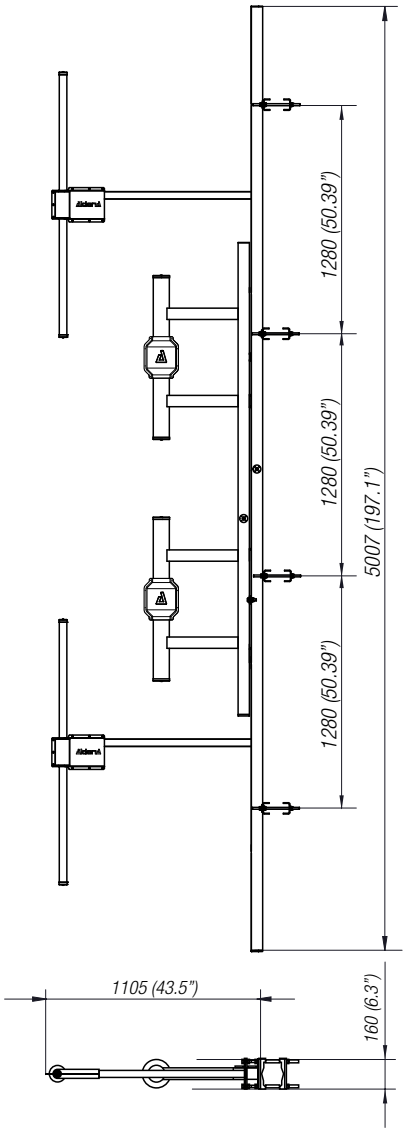
X = FM input
1: DIN 7/16 female - max 3000W rms
2: EIA 7/8" - max 5000W rms
2A: EIA 7/8" 90° up/down - 5000W rms
8: EIA 1 5/8" 90° up/down - max 10000W rms

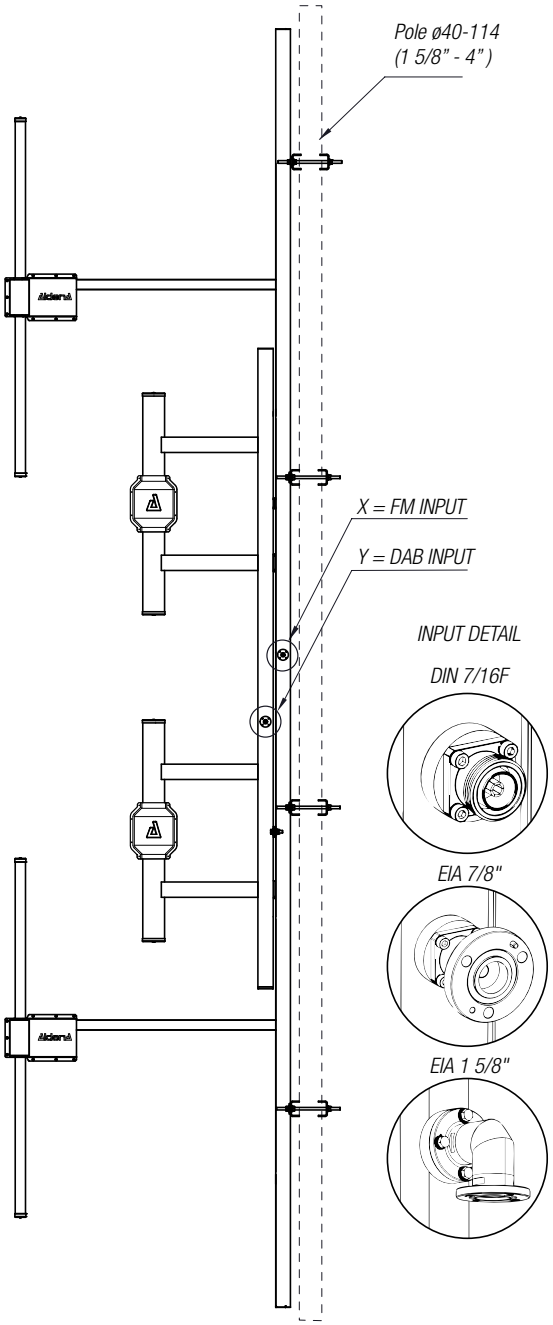
Y = DAB input
1: DIN 7/16 female - max 2000W rms
2: EIA 7/8" - max 3500W rms
2A: EIA 7/8" 90° up/down - 3500W rms
8: EIA 1 5/8" 90° up/down - max 5000W rms

MECHANICAL DATA

MATERIALS:	Stainless steel
MOUNTING:	Directly on supporting structure
MOUNTING BRACKETS:	Included for Ø40÷114mm pipe (Ø1 5/8" - 4")
ICING PROTECTION:	ABS radome
TREATMENTS:	Silver plated internal lines and connector
PRESSURIZATION:	No
ANTENNA DIMENSIONS:	5007x1105x160 mm (197.1x43.5x6.3 in)
ANTENNA WEIGHT:	60 kg (132.3 lb)
BRACKET WEIGHT:	4.8 kg (5.3 lb)
WIND SURFACE:	0.47m² (3.65ft²) front - 0.75m² (5.27ft²) side
WIND LOAD (160 km/h and 30°C)	0.5 kN front - 1.7 kN side
SURVIVAL WIND:	220 km/h (136.7 mph)
PACKING DIMENSIONS:	Wooden cage (ISPM-15) 5200X1300X330mm - 100kg (204.7x51.18x12.9 in - 220.4lb)

ANTENNA DIMENSIONAL DETAILS





OPTIONS & SERVICES

PATTERN DESIGN	Custom azimuth and elevation (beam tilt and null fill) patterns can be designed to meet specific protection/coverage requirements
PATTERN CERTIFICATION	Proof-of-performance factory test and pattern measurements on ALDENA test plan area
MOUNTING HARDWARE	Turn-key antenna delivering Tower top/side spine Special hardware/brackets
TRANSMISSION LINE	Transmission line system design and layout
COMBINERS/FILTERS	Combiners/Filters to suit requirements can be supplied
CALCULATION SERVICES	Coverage/interferfence simulations EM Near Field control and reduction (Environmental impact studies)
ON-SITE SERVICES	Site Survey and Inspection Installation/commissioning and supervisioning Drive test & EM Field strength measurements After sales maintenance
TRAINING	Techical training certification and consultancy