

**3XD-690-960/1690-2690/1690-2690-65/65/65-
16i/18i/18i-I12/I10/I10**

Model: MI3032



Electrical Specifications, BASTA

Frequency range (MHz)		690-960			1690-2690 × 2			
		690-806	824-894	880-960	1690-1990	1920-2200	2200-2490	2490-2690
Polarization		±45°						
Electrical downtilt (°)		0 – 12			0 – 10			
Gain over all tilts		15.0±0.4	16.0±0.5	16.1±0.6	16.2±0.7	17.0±0.7	17.6±0.8	17.2±1.0
Gain by Tilt, Average, (dBi)		0° 14.9 ± 0.3	0° 15.9 ± 0.4	0° 15.9 ± 0.4	0° 16.5 ± 0.4	0° 17.2 ± 0.5	0° 17.7 ± 0.5	0° 17.5 ± 0.5
		6° 15.1 ± 0.3	6° 16.0 ± 0.4	6° 16.1 ± 0.4	5° 16.5 ± 0.4	5° 17.2 ± 0.5	5° 18.0 ± 0.5	5° 17.7 ± 0.5
		12° 14.9 ± 0.3	12° 15.8 ± 0.4	12° 15.8 ± 0.4	10° 15.9 ± 0.4	10° 16.8 ± 0.5	10° 17.3 ± 0.5	10° 16.7 ± 0.5
1 st USLS (Min.), (dB)		15	15	15	16	16	16	15
USLS, 20° above beampeak (dB)		15	15	15	16	16	16	15
Horizontal 3dB beamwidth (°)		70±4	66.5±4	65.5±4	65±7	63±6	62±4	60±4
Vertical 3dB beamwidth (°)		11.4±0.8	10.3±0.6	9.9±0.7	7.3±0.9	6.8±0.7	6.0±0.7	5.3±0.6
Front to back Total (dB)	180°	>30			>28			
	180° ± 30 °	>25			>25			
Cross polar ratio (dB)	Boresight	>18			>18			
	±60°	>7			>7			
VSWR RL (dB)		<1.5 >14						
Isolation between ports (dB)		>28						
Max. power per input (W)		500 (at 50° C environmental temperature)			250 (at 50° C environmental temperature)			
Intermodulation IM3 (dBc)		≤ -153 (2×20 W carrier)						
Impedance(Ω)		50						
Lightning protection		DC Grounded						



Mechanical Specifications

Connector	6×4.3-10 Female	
Connector position	Bottom	
Dimensions H×W×D (in) (mm)	81.0×13.7×5.0 2058×349×128	
Weight (lb) (kg)	41.9 19	
Mechanical downtilt (°)	0-10	
Mast diameter supported (in) (mm)	2.0-4.5 50-115	
Radome material / color	Fiberglass / Light grey	
Operational temperature (°C)	-55~+65	
Wind load (lbf) (N)	Front	231.6 1030 (at 150 km/h)
	Side	85.4 380 (at 150 km/h)
	Rear	267.5 1190 (at 150 km/h)
Max. operational wind speed (mph) (km/h)	93 150	
Survival wind speed (mph) (km/h)	124 200	

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16i/18i/18i-110/110/110**

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RET Specifications								
Protocol	AISG 2.0/3GPP							
Voltage Range	10-36V DC							
Power Consumption	<1W Idle							
	<10W Tilting							
Hardware Interface	1	2	3	4	5	6	7	8
	DC	n/c	RS-485B	n/c	RS-485A	DC in/out	DC return	n/c
Connectors	8 pin connector, male, conform to AISG 2.0 8 pin connector, female, conform to AISG 2.0							
Adjustment Resolution	0.1 degree							

