V4-65D-M

8-port sector antenna, 8x 1710–2690 MHz, 65° HPBW, manual tilt.

- Employs state-of-the-art ultra wideband technology providing excellent RF performance in all bands
- Excellent RF pattern control over the full operating band and tilt range for desired coverage and interference containment

OBSOLETE

This product was discontinued on: March 31, 2021

Replaced By:

V4-65D-R4-V2	8-port sector antenna, 8x 1710–2690 MHz, 65° HPBW, 4x RET with manual override. Antenna rear wind loading 445N @ 150km/h

General Specifications

Antenna Type	Sector
Band	Single band
Color	Light Gray (RAL 7035)
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage | Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
Radome Material	Fiberglass, UV resistant
Radiator Material	Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, high band	8
RF Connector Quantity, total	8

Dimensions

Width	301 mm | 11.85 in
Depth	180 mm | 7.087 in
Length	2645 mm | 104.134 in

V4-65D-M

Net Weight, without mounting kit	28 kg | 61.729 lb

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1710 – 2690 MHz
Polarization	±45°
Total Input Power, maximum	800 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	**1710–1880**	**1920–2200**	**2300–2500**	**2500–2690**
Gain, dBi	17	17.8	18.3	18.9
Beamwidth, Horizontal, degrees	70	67	60	54
Beamwidth, Vertical, degrees	6.9	6.3	5.5	5.2
Beam Tilt, degrees	0–10	0–10	0–10	0–10
USLS (First Lobe), dB	16	17	20	20
Front-to-Back Ratio at 180°, dB	35	37	40	39
Isolation, Cross Polarization, dB	28	28	28	28
Isolation, Inter-band, dB	28	28	28	28
VSWR | Return loss, dB	1.5 | 14.0	1.5 | 14.0	1.5 | 14.0	1.5 | 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	200	200	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	**1710–1880**	**1920–2200**	**2300–2500**	**2500–2690**
Gain by all Beam Tilts, average, dBi	16.8	17.4	18.1	18.5
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.5	±0.4	±0.6
Gain by Beam Tilt, average, dBi	0 ° | 16.6 5 ° | 16.6 10 ° | 16.8	0 ° | 17.3 5 ° | 17.5 10 ° | 17.3	0 ° | 17.8 5 ° | 18.1 10 ° | 18.1	0 ° | 18.4 5 ° | 18.7 10 ° | 18.2
Beamwidth, Horizontal Tolerance, degrees	±2.7	±3	±4.1	±2.8
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.6	±0.4	±0.4
USLS, beampeak to 20° above beampeak, dB	15	15	18	18
Front-to-Back Total Power at 180° ± 30°, dB	25	27	28	27

CPR at Boresight, dB	15	16	16	15
CPR at Sector, dB	12	12	6	5

Mechanical Specifications

Wind Loading @ Velocity, frontal	433.0 N @ 150 km/h (97.3 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	367.0 N @ 150 km/h (82.5 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	834.0 N @ 150 km/h (187.5 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	439.0 N @ 150 km/h (98.7 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	409 mm | 16.102 in
Depth, packed	309 mm | 12.165 in
Length, packed	2894 mm | 113.937 in
Weight, gross	46.5 kg | 102.515 lb

Regulatory Compliance/Certifications

Agency	**Classification**
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

Included Products

BSAMNT-3	–	Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.
BSAMNT-M	–	Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor bracket set.

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance