

Refurbished CISCO 3G-CAB-LMR240-25 Datasheet

CISCO > INTERFACES-MODULES

Cisco High-Speed WAN Interface Cards

Antenna Specifications

Item	Specification
Diversity (dual antenna)	HWIC-3G-HSPA, HWIC-3G-HSPA-A, HWIC-3G-HSPA-G: Diversity supported HWIC-3G-CDMA-x: Diversity supported
Antenna 3G-ANTM1919D	Multiband swivel mount dipole antenna Faceplate mount (single unit included with all Cisco 3G WWAN HWICs) Electrical specifications Frequency range: 806 to 960 MHz and 1710 to 2170 MHz Gain: 0 dBi (806 to 960 MHz) and 0dBi (1710 to 2170 MHz) Maximum power: 25W Connector: TNC male Voltage standing wave ratio (VSWR): < 2.5:1 Nominal impedance: 50 ohms Mechanical specifications Antenna dimensions: 7.63 x 0.94 x 0.63 in. (19.37 x 2.34 x 1.59 cm) Temperature rating: -22 to 158°F (-30 to 70°C)
Antenna 3G-ANTM1916-CM	Multiband omnidirectional antenna Ceiling mount Electrical specifications Frequency range: 806 to 960 MHz and 1710 to 2170 MHz Gain : 1.5 decibels relative to isotropic (dBi) (806 to 960 MHz) and 2.5 dBi (1710 to 2170 MHz) Maximum power: 50W Connector: TNC male VSWR: < 1.8:1 (806 to 960 MHz) and < 1.6:1 (1710 to 2170 MHz) Nominal impedance: 50 ohms Polarization: Vertical Intermodulation -140 decibels relative to carrier (dBc) typical (800 to 960 MHz IM3 at 2x20W) -140 dBc (1710 to 1880 MHz IM3 at 2 x 20W) -150 dBc (1920 to 2170 MHz IM7 at 2 x 20W) Mechanical specifications Radome material: White ABS Base material: Aluminum Cable: 086FEP conformable Dimensions: 7.09 OD x 2.44 H in. (18.00 OD x 6.20 H cm) Weight: 0.62 lb (0.28 kg) Can be used with the following cable extensions: 3G-CAB-ULL-20 and 3G-CAB-ULL-50
Antenna Extension 3G-AE015-R	Single unit antenna extension base (15-ft (457.2-cm) cable included) Electrical specifications Frequency range : 0.8 to 5.85 GHz Attenuation: < 3 decibels (dB) at or below 2.5 GHz Base connector: TNC female Pigtail connector: TNC male Mechanical specifications Base material: UL 94 V0PC and ABS plastic Dimensions: 2.8 x 2.4 x 1.8 in. (7.1 x 6.1 x 4.6 cm) Weight: 6 oz (0.17 kg) Cable: 15 ft (457.2 cm) non-plenum rated Pro-Flex Plus 195
Antenna Extension 3G-AE010-R	Single unit antenna extension base (10-ft (304.8-cm) cable included) Electrical specifications Frequency range: 0.8 to 5.85 GHz Attenuation: < 3 decibels (dB) at or below 2.5 GHz Base connector: TNC female Pigtail connector: TNC male Mechanical specifications Base material: UL 94 V0PC and ABS plastic Dimensions: 2.8 x 2.4 x 1.8 in. (7.1 x 6.1 x 4.6 cm) Weight: 6 oz (0.17 kg) Cable: 10 ft (304.8 cm) non-plenum rated Pro-Flex Plus 195

Outdoor Antenna 3G-ANTM-OUT-LP Multiband Outdoor Low-Profile antenna with 15 ft cable
Panel mount (horizontal surface)
Electrical specifications
Frequency range: 806 to 960 MHz and 1710 to 2170 MHz
Gain: -1.5 dBi (806 to 960 MHz) and -1.5 dBi (1710 to 2170 MHz), which includes antenna gain and cable loss
Maximum RF power tolerated: 20W
Connector: TNC male, right angle
Cable: LMR-195, 15 ft.
VSWR: < 2.5:1 (806 to 960 MHz) and < 2.5:1 (1710 to 2170 MHz)
Nominal impedance: 50 ohms
Polarization: Vertical
Radiation Pattern (-3dB beamwidth)
Horizontal: Omni-directional
Vertical: 64 deg (806 to 960 MHz) and 90 deg (1710 to 2170 MHz)
Mechanical specifications
Radome material: black MakroBlend plastic
Base material: Aluminum
Radome dimensions: 5.65 in. OD x 2.06 in. H (14.35 cm OD x 5.23 cm H)
Radome weight: 0.375 lb (0.17 kg)
Cable dimensions: 15 ft. L x 0.195 in. Dia.
Mounting panel thickness: 0.1 to 0.5 in. (2.54mm to 12.7mm)
All mounting hardware is included
Environmental specifications
Mechanical Impact Rating: [IK08] 5 joules per IEC-62262
Operating and storage temperature: -40 to +85 deg C
Wind rating: 150 MPH installed
Water rating: IP65 installed

Outdoor Antenna 3G-ANTM-OUT-COMBO Includes
Mast/Wall mount antenna
3G-ACC-OUT-LA (lightning arrester)
Multiband Outdoor Omni-directional antenna
Mast/Wall mount
3G-ACC-OUT-LA lightning arrester (see below)
Can be used with the following cable extensions: 3G-CAB-ULL-20, 3G-CAB-ULL-50, 3G-CAB-LMR240-25, 3G-CAB-LMR240-50, 3G-CAB-LMR240-75
Electrical specifications
Frequency range: 806 to 960 MHz and 1710 to 2170 MHz
Gain : +2 dBi (806 to 960 MHz) and +4 dBi (1710 to 2170 MHz)
Maximum RF power tolerated: 20W
Connector: TNC male
VSWR: < 2.5:1 (806 to 960 MHz) and < 2.5:1 (1710 to 2170 MHz)
Nominal impedance: 50 ohms
Polarization: Vertical
Radiation Pattern (-3dB beamwidth)
Horizontal: Omni-directional
Vertical: 40 deg (806 to 960 MHz) and 40 deg (1710 to 2170 MHz)
Mechanical specifications
Radome material: Off-white pultruded fiberglass, UV-protected
Cap material: Off-white MakroBlend plastic
Radome dimensions: 1.25 in. OD x 16 in H (3.175 cm OD x 40.64 cm H)
Radome weight: 0.375 lb (0.17 kg)
Mounting hardware
Bracket and clamps (for mast mounting)
Bracket (for wall mounting)
Screws not included (for wall mounting)
Environmental specifications
Operating and storage temperature: -40 to +85 deg C
Wind Rating: 100 MPH (operational) and 125 MPH (survival)
Water rating: IP65 installed

Outdoor Antenna Lightning Arrester 3G-ACC-OUT-LA 3G Lightning arrester for outdoor antennas
Type: Inline quarter-wave arrester with integrated high pass filter
Bulkhead mounted and grounded with optional ground lug
Can be used with 3G-ANTM-OUT-COMBO outdoor omni antenna with lightning arrester
Can be used with the following cable extensions: 3G-CAB-ULL-20, 3G-CAB-ULL-50, 3G-CAB-LMR240-25, 3G-CAB-LMR240-50, 3G-CAB-LMR240-75
Indoor (preferred) or outdoor (optional) installation
No maintenance required
Electrical specifications
Frequency Range: 800 MHz to 2200 MHz
Maximum insertion Loss : 0.2dB
Maximum RF power tolerated: 20W
Connector: TNC male (protected side) and TNC female (antenna-facing)
VSWR: < 1.22:1 (806 to 2200 MHz)
Return Loss: > 26 dB
Nominal impedance: 50 Ohms
Surge Protection: 10 KA single and 5 KA multiple strikes (8/20us test pulse)
Mechanical specifications
Material: Corrosion-resistant brass
Dimensions: 1.25 in. OD x 2.5 in L approx (3.175 cm OD x 6.35 cm L)
Mounting hardware
Ground Lug (optional grounding method)

Nut for bulkhead mounting and grounding (preferred grounding method)
Environmental specifications
Operating and storage temperature: -40 to +85 deg C
Water rating: IP67 installed

The next steps...

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