

19"/2 Cisco Router RM302



Gigabit Router

The 19"/2 RM300 series is a high performance router in a compact and rugged design. It is based on the Cisco 5940 ESR card that features low power consumption and advanced network capabilities such as QoS. It supports Cisco IOS and is configured through the standard Cisco CLI.

Mounting

The 19"/2 standard enables flexible mounting with customized brackets. The unit can be mounted in a 19" rack, half racks, directly to a surface and in any angle.

Built to take a beating

The router is built from the ground up to withstand the harshest conditions over the long haul. It has an aluminium casing and it runs on ruggedized hardware, suitable for harsh environments.

Guaranteed performance

Our products always come with a lifetime support to ensure your equipment maintains peak performance for many missions to come. We also serve units and stock spare parts for 5 years end-of-life.

Features

- Based on the Cisco 5940 ESR
- 10-32 VDC
- Passively cooled

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Connector Interfaces

X5 DC IN (front)	• 1x Power
X4 (front)	• 1x RS232 Console
X3 (front)	• 1x RS232 Service
X1, X2 (front)	2 connectors which each has: • 2x ETH 1000BASE-SX

Other Interfaces

4x Indicator (front)
1x System Button (front)

Technical Specification

Product type	Cisco Router
Reference Design	Based on the Cisco 5940 ESR
Blanking	Double-pressing the System button
LAN 1000BASE-SX	1000BASE-SX standard with MM 850nm OM2 fiber
MIL-STD-1275D	5.3.2.1 5.3.2.2 5.3.2.3 5.3.2.4
Polarity protection	Protected against polarization failure on the power input in the voltage range of normal operation.
Power consumption	50W
Power input	10-32 VDC
Coating and color	Dupont AE0305-6603120 (RAL6031)
Cooling	Passively cooled
Dimensions Width and Height	220x44mm (8,66x1,74 inch) (WxH)
Earth point	M6 12mm
Rack Mounting depth	400mm (17,4 inch)
Surface treatment chassis	Chromit-Al
Weight	5 kg (11 lbs)

Environmental Specification (* designed to meet)

Functional Shock - Operating*	MIL-STD-810G, Method 516.6, Procedure I - Functional Shock. Table 516.6-II, Terminal peak sawtooth pulse, Ground equipment 40g 11 ms
High temperature - Operating*	MIL-STD-810G, method 501.5, Procedure II - Operation 55 °C (131 °F)
High temperature - Storage*	MIL-STD-810G, method 501.5, Procedure I - Storage 71 °C (160 °F)

Humidity*	MIL-STD-810G, Method 507.5, Procedure II - Aggravated 95 ± 4 %rh Ten 24-hour cycles
IP Class (Solid Particle Protection)*	IP Class 6X
IP Class (Water)*	IP Class X5
Low air pressure - Rapid Decompression*	MIL-STD-810G, Method 500.5, Procedure III - Rapid Decompression 75.2kPa, corresponding to 2,438m (8.000 ft) 17kPa, corresponding to 12192m (40.000 ft)
Low air pressure - Operating*	MIL-STD-810G, method 500.5, Procedure II - Operation/Air Carriage 4572m (15.000 ft)
Low temperature - Operating*	MIL-STD-810G, method 502.5, Procedure II - Operation -40 °C (-40 °F)
Low temperature - Storage*	MIL-STD-810G, method 502.5, Procedure I - Storage -40 C (-40 °F)
Noise level*	Maximum noise level of 40dB SPL A-weighting @ 1m (3,3 ft) distance
Salt fog*	MIL-STD-810G Method: 509.5 5% +- 1% (by weight) Two cycles, 24h wet + 24h dry /cycle
Temperature Shock - Operating*	MIL-STD 810G, method 503.5 procedures I - C, - Multi-cycle shocks from constant extreme temperature 55 °C (131 °F) - 40 °C (-40 °F)
Transit drop, in shipping package*	MIL-STD-810G, method 516.6, Procedure IV - Transit Drop. Table 516.6-VI, Transit drop test, < 45.4 kg (100 lbs), < 91 cm (36 inch), Manpacked or man-portable
Vibration - Helicopter*	MIL-STD-810G, Method 514.6, Procedure I - General vibration, Category 14 - Rotary wing aircraft - helicopter
Vibration - Loose Cargo*	MIL-STD-810G, Method 514.6, Procedure II - Loose cargo transportation, Category 5 - Truck/trailer - loose cargo
Vibration - Tracked Vehicles*	MIL-STD-810G, Method: 514.6 , Procedure 1 - General Vibration, Category 20 - Ground vehicles - ground mobile, tracked vehicles
Vibration - Wheeled Vehicle*	MIL-STD-810G, Method: 514.6 , Procedure 1 - General Vibration, Category 20 - Ground vehicles - ground mobile, wheeled vehicles

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EMC Specification (* designed to meet)	
CE EMI*	EN61000-6-3:2007
CE EMS*	EN55032:2015
EMI conducted CE102*	MIL-STD-461F, Method CE102 BASIC CURVE 10kHz to 10MHz
EMI radiated RE102*	MIL-STD-461F 2MHz - 18Ghz Navy Mobile & Army
EMS conducted CS101*	MIL-STD-461F, Method CS101, conducted suceptibility, power leads CURVE #1 30Hz to 150kHz
EMS conducted CS114*	MIL-STD-461F 10kHz - 200MHz Army, Ground
EMS conducted CS115*	MIL-STD-461F
EMS conducted CS116*	MIL-STD-461F 10 kHz to 100 MHz
EMS radiated RS103*	MIL-STD-461F 2MHz to 1GHz Army
ESD*	EN61000-4-2:2009 Level 3 EN50024:1998 Performance criteria B + A1:2001 + A2:2003