

19"/2 Cisco router RM301



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.

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.

- 10-32 VDC
- Passively cooled

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Connector Interfaces

| | |
|----------------------------|---|
| CONSOLE (front) | • 1x RS232 Console |
| G0/0 - G0/3 (front) | 4 connectors which each has: <ul style="list-style-type: none"> • 1x ETH |
| SERVICE (back) | • 1x RS232 Service |

Other Interfaces

1x System Button (front)

Technical Specification

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|----------------------------------|--|
| Authentication | PAP/CHAPo ACLs |
| Blanking | Double-pressing the System button |
| Encapsulation | PPP, PPPoE GRE 802.1q |
| LAN | 1000BASE-T standard |
| Management Services | Telnet / SSH SNMP RADIUS / TACACS+ NTP TFTP DHCP / DHCP relay HSRP |
| Routing | IPv4, IPv6 Dynamic Routing (RIP/OSPF/EIGRP/ BGP/PBR) Multicast Routing (PIM and IGMP) Radio Aware Routin Mobile Ad Hoc Networks Mobile IP NAT |
| Traffic Management | QoS Shaping CoS WRED CBWFQ / LLQ / WFQ RSVP |
| MIL-STD-1275D | 5.3.2.2 5.3.2.3 5.3.2.4 |
| Power consumption | 50W |
| Power input | 10-32 VDC |
| Coating and color | Dupont AE0305-6603120 (RAL6031) |
| Cooling | Passively cooled |
| Dimensions | 220x227x44 mm (WxDxH) |
| Surface treatment chassis | Chromit-Al |
| Weight | 5 kg (11 lbs) |
| MTBF | Greater than 25000 h |

Other functionalities

Contact MilDef for more information

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 65 °C (149 °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 |

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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

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 |