19”/2® Radio Router RM701

cisco Technology

Router and radio in one unit

This RM701 combines the mobile IP capabilities of the Cisco 5915 Router with the Mobile Ad-Hoc Networking System (MANET) capability of the Persistent Systems radio. The unit is designed to maintain connectivity on the move and is ideal for mission-critical mobile communication networks. The RM701 provides a scalable peer-to-peer network that provides data, video and voice even in the most challenging applications.

RM701 provides a dynamic, reliable and secure wireless networking solution, with user throughput of up to 41 Mbps UDP and 31 Mbps TCP. The mobile IP software of the Cisco IOS allows transparent roaming over multiple wireless networks.

- Two customizable radio interfaces
- Peer-to-Peer Mobile Ad Hoc Network (MANET)
- Mobile IP capabilities
- Serial-to-Ethernet capabilities
- Real-time Position Location
- Push To Talk (PTT) Voice

Built to take a beating

Its is designed to withstand the harshest conditions over the long haul. 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 an additional 5 years after end-of-life.

Mounting

All 19”/2 units can be mounted together in several different ways
- One 19”/2 unit can be mounted in a 19” rack
- Two 19”/2 units can be mounted together in a 19” rack
- Two or more devices can also be stacked on top of eachother

19”/2® Radio Router
RM701

Technical Specification	
Description	RM701 includes the Cisco 5915 ESR card and the Persistent System MPU3 card.
Application Interfaces	TCP/IP, UDP/IP, DHCP, HTTP, SNMP, SMTP, SMS, MSCI.
Security	IPSec VPN, SSL/TLS, SRTP, 3DES, AES, IKE
PTT Voice	Support up to 16 channels of Push-to-talk. (PTT) Voice. G.711 Codec for Radio-over-IP (RoIP) interoperability.
Wireless	Seamless layer 2 network connectivity Integrated hardware cryptographic accelerator Anti-tamper mechanisms. AES-CTR-256 with SHA-512 HMAC. Over the air re-keying.
Interfaces (front)	1 x Cisco Copper 100Mbit (RJ45) 3 x Cisco Copper 100Mbit (RJ45) (Optional PoE) 1 x Cisco Console (RJ45) 1 x PS Serial port (RJ45) 1 x PS Copper 100Mbit (RJ45) 1 x PS Audio port (U-283) 2 x Mesh Radio Antenna (N-type) 1 x System button
Interfaces (back)	1 x DC in 10-32V DC (ITS) 1 x MilDef service port
Power Consumption	100 W (max with heaters activated)
Transient power protection	Designed to meet MIL-STD-1275D
Case	Aluminium
Dimensions	220 x 300 x 44 mm (W x D x H)
Weight	6kg
Certifications	Designed to meet IP65, MIL-STD-810F and MIL-STD-461F
Other	No fans

Designed to meet:

MIL-STD-810F	Operating	Storage
Altitude Method 500.4, *(procedure II,III)*	4572 m (15000 ft)	Rapid decompression 12192 m (40000 ft)
Humidity Method 507.4	Five 48 h test cycles 95% humidity	-
Shock Method 516.5, *(procedure I, IV)*	40 G, 11 ms (Terminal-peak saw tooth shock pulse)	122 cm (26 drops)*
Salt fog Method 509.4, *(Procedure I)*	-	Salt concentration of 5% +-1% (48 h wet +48 h dry/cycle)
Temperature Method 501.4 & Method 502.4, *(procedure I, II)*	-40 °C to 55 °C (-40 °F to 131 °F)	-40 °C to 70 °C (-40 °F to 158 °F)
Temperature shock Method 503.4 (procedure I)	-40 °C to +55 °C (-40 °F to +131 °F)	-
Vibration Method 514.5		
- Category 2	-	√
- Category 14	√	-
- Category 20 a & b	√	-

** Only with optional Peli Case*

Designed to meet:

MIL-STD-461F	Limitation	Threshold
EMI radiated Method RE102	2 MHz to 18 GHz	Navy Mobile & Army
EMI radiated Method RS103	2 MHz to 1 GHz	Army
EMI conducted Method CE102	10 kHz to 10 Mhz	Basic Curve
EMI conducted Method CS101	30 kHz to 150 kHz	Curve #1
EMI conducted Method CS114	10 kHz to 200 MHz	Army
EMI conducted Method CS115	Tested according to standard	Army
EMI conducted Method CS116	10 kHz to 100 MHz	Army

ISO 9001: Certificate No. FM68727
ISO 14001: Certificate No. EMS554313

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