

Remote Mobile Gateway System



TRANSPORTABLE BROADBAND NETWORK ACCESS VIRTUALLY ANYWHERE.

Tachyon Networks' new Remote Mobile Gateway (RMG) System redefines transportable satellite networks. Its flexible, compact form factor is ruggedized to withstand the harshest environmental conditions. The RMG combines Tachyon's unsurpassed SLA-backed Quality of Service (QoS) with Cisco's industry-leading enterprise router and switch technologies.

Tachyon's enterprise VSAT modem provides broadband access, mobility and interoperability across multiple wired and wireless networks to deliver secure data, voice and video communications for both mobile and outdoor embedded networks. The RMG's standards-based Mobile IP also delivers transparent roaming for full coverage over wide geographic areas to seamlessly combine Tachyon's network management strengths with Cisco's IPICS interoperability suite.



Key Features

- Rugged VSAT router with a modular compact form factor, specifically designed and tested to withstand extreme temperatures, high altitude, shock, vibration, and exposure to damp, wet or dusty environments. Traffic classification and prioritization provide toll-quality, guaranteed IP telephony
- Sealed enclosure uses conductive cooling (no internal fans) meeting a wide range of environmental specifications, including MIL-STD810F, MIL-STD-461E, NEMA-4 and SAE (J1211 and J1455) standards
- Standards-based TCP/IP connectivity for a wide range of LANs and WANs, wired or wireless links, including 802.11a, 802.11b and 802.11g wireless capabilities
- Always-on broadband wireless access for vehicle networks, with easy mobility through Mobile IP, regardless of location
- Advanced IP services and interoperability through standards-based Cisco IOS Software, offering excellent network security, reliability and guaranteed Quality of Service (QoS)
- Innovative remote management features via the embedded interface and intelligent modular power supply cards, allowing each functional unit to be individually monitored and controlled

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Product Specifications

Satellite WAN		Description	
Network Topology	STAR (TDM / Multi-Rate, Multi-Frequency TDMA)		
Maximum IP Data Rates	Downstream: 30Mbps	Upstream: 1Mbps	
FEC	Downstream: DVB-S	Upstream: Proprietary Block Code	
Frequencies	IF Band: L-Band	RF Bands: C, Ka, Ku & X-Band	
Physical	Tachyon 8230	Tachyon 8270	
Dimensions (H x W x D)	150 x 173 x 203 mm (5.9" x 6.8" x 8.0")	150 x 173 x 417 mm (5.9" x 6.8" x 16.4")	
Weight	6.44 kg (14.2 lb)	8.6 kg (18.9 lb)	
Environmental		Description	
Operating Temperature	-40°C to +75°C NEMA 4 Compliant; Rugged Chassis		
Input Voltage	24VDC (also available in 110 and 220VAC via external power supply)		
Interfaces		Description	
SatComm	Tx: TNC 950–1450 MHz Rx: TNC 950–2150 MHz		
Available BUC Power	+24VDC, up to 3 Amps, Nominal @ IFL (Supports up to 5W BUC with no External Power)		
Available LNB Power	+24VDC, Nominal @ IFL		
Data Interfaces		Description	
Cisco 3230 Chassis	RJ-45: 4 x 10/100 Ethernet Ports Wireless: 2 x 802.11 a/b/g (2.4GHz & 4.9GHz)		
Cisco 3270 Chassis	RJ-45: 8 x 10/100 Ethernet Ports Wireless: 3 x 802.11 a/b/g (2.4GHz & 4.9GHz) 2 x 10/100/1000 Gigabit Ethernet Ports (2 copper or 1 copper + 1 fibre)		

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