



CORE RM



Rack Mountable LTE Gateway

The AGILE CORE RM is a rack-mountable IP to LTE gateway. The device integrates bonded, multi-channel LTE, GNSS modes and optional Land Mobile Radio capabilities, typically installed in telecommunications racks. CORE RM provides telecommunication access for data, voice, SMS, and fax services, utilizing eight Cat 6 LTE channels. Each LTE channel supports voice, SMS, and data transmission at speeds of up to 300 Mbps for downloads and 50 Mbps for uploads. Designed for ease of operation with advanced technology, the CORE RM is prepared to accommodate evolving communication demands.

The Basics

- 1U, 19-inch rack-mountable
- Input voltage: 100-240 VAC, 50W
- Passively cooled for a wide range of operating temperatures
- Global LTE frequency support
- 8 LTE Cat 6 radio modules optimized for M2M applications
- 8 local micro-SIM (3FF) sockets
- Load balancing for high throughput, scalability, and operational ease
- The integrated MIMO antenna system, featuring one antenna each for MAIN and DIV for every two radios, provides the best possible coverage and data rates using a total of eight cellular antennas
- An available GNSS system delivers precise location data using GPS, GLONASS, BeiDou, Galileo, and QZSS

Scalability and Operations

- 8 LTE Cat 6 radio modules onboard with 8 local micro-SIM card slots
- Voice via VoLTE/UMTS/GSM – depending on network, SIP (RFC 3261 ff), Codecs: G.711, G.729, G.722, T.38, Integrated SIP registrar
- CORE RM provides downlink data transmission rates of 300 Mbps and uplink rates of 50 Mbps per radio
- CORE RM supports high-volume SMS messaging with various APIs for sending and receiving SMS, including command line, HTTPS interface, and SIP interface
- The optional CORE Optica server configures and monitors all CORE systems
- The optional CORE Optica server minimizes maintenance requirements and downtime, while providing integrated system status reports
- The optional CORE Optica server provides MMS functionality
- CORE RM offers global GSM carrier compatibility, eliminating band support concerns



Every CORE RM features a high-throughput architecture utilizing Gigabit bandwidth for data applications like VPN, offering download speeds of up to one Gbps. With 8 LTE channels, you can allocate traffic to standard internet access, separate secure VPNs, and/or bind different users to different 4G/LTE channels. The optional CORE Optica server allows for centralized management of all CORE systems. The integrated MIMO antenna architecture in the CORE RM, utilizing one antenna for MAIN and DIV for two 4G/LTE channels, ensures optimal coverage and throughput with only eight antennas.

CORE RM

Product Specification Data Sheet



Global Version

The CORE RM is an optimal solution for backup functionality when primary land-based services experience outages or are otherwise inaccessible. It can also serve as the standard WAN connection, utilizing customer-supplied satellite or land-based services. Upon configuration, the CORE RM will autonomously manage switching without requiring any user intervention.

Products: CORE RM			
Systems:	CORE		
Data Rates per Cat 6 LTE Channel, 8 Channels	<ul style="list-style-type: none"> LTE-FDD: Max. 300 Mbps (DL) / Max. 50 Mbps (UL) LTE-TDD: Max. 226 Mbps (DL) / Max. 28 Mbps (UL) 	Features	<ul style="list-style-type: none"> IP Routing IPv4, IPv6, Dual Stack Integrated IP router/firewall Channel Bonding/Load Balancing IVPN NAT.DHCP Voice via VOLTE/UMTS/GSM-depending on network SIP (RFC 3261ff) Codecs: G.711, G.729, G.722, T.38 Integrated SIP registrar Maintenance over the air (OTA) remote provisioning event and alarm management interfaces Ethernet: 1x10/100/1000 Base-T RJ-45 GNSS: GPS, GLONASS, BeiDou, Galileo, QZSS SIM: 8 x SIM card slots, micro-SIM (3FF) Power: 100-240 VAC, 50W Redundant power supply (optional)
Global: (Worldwide LTE) Bands Supported	<ul style="list-style-type: none"> LTE-FDD: B1/ 2/ 3/ 4/ 5/ 7/ 8/ 12/ 13/ 14/ 17/ 18/ 19/ 20/ 25/ 26 / 28/ 29/ 30/ 32/ 66/ 71 LTE-TDD: B34/38/39/40/41/42/43/46 /48 (CBRS) LTE-LAA: B46 		
Data Rates per WCDMA Channel, 8 Channels	<ul style="list-style-type: none"> DC-HSDPA: Max. 42 Mbps (DL) HSUPA: Max. 5.76 Mbps (UL) WCDMA: Max. 384 Kbps (DL/UL) 		
8 Micro-SIM (3FF) slots 8 Antennas required, BNC connector)		Physical Parameters	<ul style="list-style-type: none"> Dimensions (W x H x D): 17.4 x 1.7 x 10.2 inches / 442 x 43 x 260 mm Weight: 5.07lb / 2.3kg Material: Aluminum Mounting: 19" 1U rack
Global: UMTS Bands Supported	<ul style="list-style-type: none"> WCDMA: B1/ 2/ 3/ 4/ 5/ 6/ 8/ 19 		
AGILE LTE antennas styles:	<ul style="list-style-type: none"> Antenna Standard - SMA connected antenna low height directional Antenna Premium - SMA connected antenna mid height directional Antenna Premium - Wired SMA lead antenna flat panel 	Operating Range	<ul style="list-style-type: none"> Temperature: 41°F to 104°F / 5°C to 40°C
Wired	<ul style="list-style-type: none"> 1 Ethernet 1x10/100/1000 Base-T (RJ-45) 	Warranty and Service Standard	<ul style="list-style-type: none"> 1 Year Limited Hardware warranty 1 Year standard or premium support available 1 year support and hardware warranty extensions are available for years 2 through 5



WE ARE AGILE

We engineer the hardware. We design the software.
We build the solution. With committed support