CORE RM

Online Access - Everywhere, Everytime & Everyplace

The AGILE CORE RM series are IP to LTE rack mounted gateways that integrate bonded multi-channel cellular LTE, Wi-Fi and optional Land Mobile Radio extension capabilities. CORE RM is typically secured in a telecom rack that can be in a fixed location or in a mobile package such as the AGILE CORE system. CORE RM provides telecommunication access for data, voice, SMS, and fax with eight LTE channels. Each LTE channel supports voice, SMS and data up to 150 Mbps downstream and 50 Mbps upstream. CORE RM X1 sources SIM cards installed internally in the CORE RM chassis. CORE RM X2 is licensed for service via the AGILE CORE Control system. Designed for ease of use utilizing leading-edge technology CORE RM is ready to keep pace with your growing communications needs.

The Basics

- 1U 19 inch rackmount design simplifies installation
- AC power (DC power optional)
- Passively cooled for a wide range of temperatures
- 8 LTE channels / 8 SIM slots for each CORE RM
- LTE Cat 4 module optimized for M2M and IoT applications
- Channel bonding and load balancing for high throughput

Scalability and Operational Ease

- Eight cellular LTE radios onboard that can hold 8 SIM cards locally in the CORE RM SIM slots or virtually from an optional CORE Control 2 system installed at your datacenter.
- The optional CORE Control configures and checks in on all CORE systems. CORE Control provides the MMS feature and reduces maintenance and downtime while providing integrated system status reports.

- CORE RM systems automatically register with the optional CORE Control 1 server when turned on and are visible on the network for the entire duration. If CORE Control 2 is added appropriate remote SIM cards can be distributed per plan.
- CORE RM operates globally with all GSM carriers, no need to worry about which bands are supported. Add CORE Control 2 and the CORE RM will receive the correct SIM cards as needed. Fully mobile.

CORE RM has an internal high throughput architecture that utilizes Gigabit bandwidth for data applications like VPN, and provides a download speed of up to one Gbits. With 8 LTE channels, you can split your traffic to standard Internet access, separated secure VPNs and/or 'binding' different users and different 4G/LTE channels. With the optional CORE Control 1 you can manage every CORE system. With CORE Control 2 you can add remote SIM management. The integrated MIMO antenna architecture of the CORE RM with just one antenna for MAIN and DIV for two 4G/LTE channels enables the best coverage and throughput with just eight antennas.

FLEXIBILITY TODAY AND TOMORROW

CORE RM has eight cellular LTE radios onboard that covers most frequencies of service around the world, including all major North American carriers. This flexibility frees you from being limited to just one service provider when you purchase your LTE gateway and from having to replace your hardware when switching to a new cellular service provider.

CORE RM

Product Specification Data Sheet

Carrier-grade 19" case for mobile, portable and office applications

Global Version

North American Version

AGILE ROUTING

CORE RM is the ideal solution as a backup when primary land based services fail or are not available or as the standard WAN connection using customer provided satellite or land based services. Once configured CORE RM will manage the switching with no user action required.

Products: CORE RM X1, CORE RM X2 (CORE Control)

Systems: CORE

Data Rates per LTE Channel, 8 Channels: (LTE Cat. 4)
- Uplink up to 50 Mbps
- Downlink up to 150 Mbps

North America: (Dedicated public safety, first responder networks, AT&T, Verizon, T-Mobile) Bands Supported:
- 4G: B2, B4, B5, B12, B13, B14, B71
- 3G: B2, B5

Global: (Worldwide LTE) Bands Supported:
- 4G: B1, B2, B3, B4, B5, B7, B8, B12, B13, B18, B19, B20, B25, B26, B28, B38, B39, B40, B41
- 3G: B1, B2, B4, B5, B6, B8, B19

8 3FF Micro SIM slots (optional SIM population via CORE Control 2 with a CORE RM X2 license)

CORE RM X1 / CORE RM X2 - 8 GSM antennas

AGILE LTE antennas:
- Antenna Standard - SMA connected antenna low height directional
- Antenna Premium - SMA connected antenna mid height directional
- Antenna Premium - Wired SMA lead antenna flat panel

Approval Carriers:
- Deutsche Telekom (europe), Verizone/AT&T/Sprint/US Cellular/T-Mobile*(North America), Telus/Rogers*(Canada)

Regulatory:
- GCF (Global), CE (Europe), FCC/PTCRB (N.America), IC (Canada), Anatel (Brazil), IFETEL (Mexico), SRRC/CCC/NAL (China), KC (South Korea), NCC (Taiwan, China), JATE/TELEC (Japan), RCM (Australia & New Zealand), FAC* (Russia), NBTC (Thailand), IMDA (Singapore), ICASA (South Africa)
- Others: RoHS, WHQL

LAN
- Ethernet 1x10/100/1000 Base-T
- WLAN 802.11b/g/n (optional

Features
- IP Routing IPv4, IPv6, Dual Stack Integrated IP router/firewall Channel Bonding/Load Balancing
- VPN NAT. DHCP
- Voice via VoLTE/UMTS/GSM-depending on network SIP (RFC 3261 ff)
- 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
- SIM: 8xSIM card slots, micro SIM (3FF), Cloud-based SIM via CORE Control 2
- Power: 100-240 VAC, 50W Redundant power supply (optional)

Physical Parameters
- Dimensions (W x H x D):
- - 17.4x1.7 x 10.2 inches
- - 442 x 43 x 260 mm
- Weight: 5.07lb / 2.3kg

- Material: Aluminum
- Mounting: 19" 1U rack
- Mounting: 19" 1U rack

Environmental:
- Temperature: +41F to +104F /+5°C to +40°C
- Humidity: 5% to 80% (non-condensing)

Certifications: EMC, Safety, CE, FCC

Warranty and Service

Standard
- 1 Year Limited

Optional
- 2, 3, 5 year

MORE BANDWIDTH LESS EXPENSE!

WE ARE AGILE

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