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Mobile CORE X5

Flexible Communications Platform

The Mobile CORE 5G is a compact, rugged communications hub designed for a diverse range of applications. This durable device integrates bonded multi-channel cellular 5G LTE, Wi-Fi, GPS, and optional Land Mobile Radio extension capabilities. It can be mounted in vehicles, installed in a rugged carry case (CORE CommsKit), or utilized in stationary facilities. Engineered for ease of use with leading-edge technology, the Twin CORE 5G is prepared to address your evolving communication requirements.

The Basics

- Compact and rugged design enables diverse deployment solutions
- DC power / AC power (optional)
- No moving parts affected by vehicle movement
- 4x 5G channels with LTE fallback/4 SIM slots per Mobile CORE
- A large, secure Wi-Fi coverage area for body cameras, healthcare monitoring devices, and other wireless systems
- Integrated GPS tracking
- Interconnect points for data units, biometric equipment, and other wired devices
- Suitable for single deployments or large enterprises

Scalability and Operations

- Four 5G radios onboard with LTE fallback.
- The remote management server, CORE Optica series, monitors, configures, and checks in on all CORE systems, reducing maintenance and downtime while providing integrated system status reports.
- Mobile CORE X5 systems automatically register with the optional CORE Optica series server when turned on and are visible on the network for the entire duration.
- Powerful and secured Wi-Fi with a large effective range, secured authorized devices. Wi-Fi mesh is possible with multiple Mobile CORE systems deployed in a given territory.

Every Mobile CORE X5 has sophisticated software that manages cell tower handoffs as you travel, maximizing signal strength and automatically searching for the best throughput connection available. Use of bonded aggregation allows Mobile CORE users the ability to maintain session persistence even if one or more of the cell connections fail for any reason. The optional LMR extension functions in the background to detect loss of service to the trunked radio network and will send the transmission over the 5G connection. This requires no action by the operator.

Mobile CORE X5

Product Specification Data Sheet

Billet milled aluminum case for mobile, portable and office applications

Our devices automatically search for the best throughput connection available. If all 5G and LTE connections are lost, Mobile CORE will automatically connect to the satellite. If the device finds an available cellular connection it will reconnect to that service, hands-free. The customer does not have to monitor AGILE Routing.

Products: Mobile CORE X5, Systems: Mobile Core CommsKit X5, Mobile CORE Comms Kit LMR X5			
Data Rates per 5G Channel, 4 Channels	• 5G SA Sub-6: Download 2.4 Gbps; Upload 900 Mbps • 5G NSA Sub-6: Download 3.4 Gbps; Upload 550 Mbps	**Wired**	• 6 Gigabit RJ-45 Ethernet Ports • 2 USB 3.2 Ports
Global 5G FR1 Bands Supported	• NSA: n1/ 2/ 3/ 5/ 7/ 8/ 12/ 13/ 14/ 18/ 20/ 25/ 26/ 28/ 29/ 30/ 38/ 40/ 41/ 48/ 66/ 70/ 71/ 75/ 76/ 77/ 78/ 79 • SA: n1/ 2/ 3/ 5/ 7/ 8/ 12/ 13/ 14/ 18/ 20/ 25/ 26/ 28/ 29/ 30/ 38/ 40/ 41/ 48/ 66/ 70/ 71/ 75/ 76/ 77/ 78/ 79	**WLAN Security**	• WPA, WPA 2, WPA-PSK, WPA-EAP
Data Rates per LTE Channel, 4 Channels (LTE Cat 19 Download, Cat 18 Upload)	Download 2.4 Gbps; Upload 900 Mbps	**GPS**	• Active NMEA Passive NEMA
Global: (Worldwide LTE) Bands Supported	• 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/ 48 • LTE-LAA: B46	**Processing**	Intel Atom 4 Gb RAM 32 Gb Storage (eMMC) USB 3.2 Ethernet Ports WAN/LAN configurable 2.5 Gb
Data Rates per WCDMA Channel, 2 Channels	Download 42 Mbps; Upload 5.76 Mbps	**Structure Power**	• 4 to 40 VDC
Global: UMTS Bands Supported	• WCDMA B1/ 2/ 4/ 5/ 8/ 19	**Dimensions**	• 5 15/16" x 61/8" x 21/16" • 151mm x 156mm x 52mm
4 3FF Micro SIM slots (optional SIM population via a CORE Control 2 system		**Weight**	• 1.2lbs / .547kg
Mobile CORE X5	8 GSM antennas, one optional GPS antenna, the unit has 2 internally mounted Wi-Fi antennas	**Operating Range**	• -22°F to 158°F • -30°C to +70°C • IP64
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	**Security FIPS-140-2**	• Optional
WAN protocol for cellular/satellite/other WAN connected interfaces.		**VPN**	• IPSEC Tunneling
Wi-Fi	• Dual Radio • 2.4/5 GHz • Dual Band • 802.11a/b/c/g/n/ac	**Warranty and Service Standard**	• 1 Year Limited Optional • 2, 3, 5 year

WE ARE AGILE

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