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Twin CORE X1

Versatile Communication System

Twin CORE X1 is a compact and rugged communications hub built for a wide variety of applications. It is a durable device that integrates bonded, multi-channel cellular Cat 6 LTE, Wi-Fi, GPS, and optional Land Mobile Radio extension capabilities.

The Twin CORE X1 can be mounted in any vehicle, installed in a rugged carrying case (CORE CommsKit), or positioned at a stationary facility. Designed for ease of use and employing cutting-edge technology, the Twin CORE X1 is prepared to accommodate your evolving communication requirements.

The Basics

- Compact and rugged design allows for a variety of deployment solutions
- DC power, AC power optional
- No moving parts affected by vehicle movement
- 2 Cat 6 LTE channels / 2 SIM slots for each Twin CORE
- Large, secure Wi-Fi coverage area for body cameras, healthcare monitoring devices, and other wireless systems
- GPS tracking embedded in the unit.
- Interconnect points for data units, biometric equipment, and other wired devices.
- May be deployed singularly or throughout a large enterprise

Scalability and Operations

- Two Cat 6 LTE radios are included.
- The CORE Optica remote management server monitors, configures, and checks all CORE systems, decreasing maintenance and downtime while delivering comprehensive system status reports.
- Twin CORE X1 systems automatically connect to the optional CORE Optica server upon activation and remain visible on the network continuously.
- The system features robust and secure dual-band Wi-Fi with a wide operational range. Wi-Fi mesh networking is an option with multiple CORE systems in a specific area..

Twin CORE X1 incorporates advanced software to efficiently handle cell tower transitions during travel, optimizing signal quality and automatically finding the most effective data connection. This enables Twin CORE X1 users to retain continuous sessions, even with temporary cell service disruptions. The supplementary LMR extension operates silently to identify any interruption in the trunked radio network and automatically reroutes transmissions via the LTE network, requiring no manual intervention.

Flexibility Today and Tomorrow

The Twin CORE model features two Cat 6 LTE radios capable of supporting all service bands, encompassing major North American networks, FirstNet, and private networks. This adaptability ensures you're not tied to a single service provider at purchase and eliminates the need to upgrade your equipment when you change cellular providers.

Twin CORE

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 LTE connections are lost, Twin CORE X1 will automatically connect to any available satellite modem. 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: Twin CORE X1, Systems: Twin CORE CommsKit X1, Twin CORE CommsKit LMR X1			
Data Rates per CAT 6 LTE-A Channel, 2 Channels	• LTE-FDD: Max. 300 Mbps (DL) / Max. 50 Mbps (UL) • LTE-TDD: Max. 226 Mbps (DL) / Max. 28 Mbps (UL)	**Wired**	• 3 Gigabit RJ-45 Ethernet Ports • 1 USB 3.2 Ports
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 (CBRS) • LTE-LAA: B46	**WLAN Security**	• WPA, WPA 2, WPA-PSK, WPA-EAP
Data Rates per WCDMA Channel, 2 Channels	• DC-HSDPA: Max. 42 Mbps (DL) • HSUPA: Max. 5.76 Mbps (UL) • WCDMA: Max 284 Kbps (DL/UL)	**GPS**	• Active NMEA Passive NEMA
Global: UMTS Bands Supported	• WCDMA B1/ 2/ 4/ 5/6/ 8/ 19	**Structure Power**	• 4 to 40 VDC
2 3FF Micro SIM slots		**Dimensions**	• 5 15/16 x 6 1/8 x 2 1/16 in • 160 x 92x 55 mm
Twin CORE X1	2 GSM antennas, 1 optional GPS antenna, the unit has 2 internally mounted Wi-Fi antennas	**Weight**	• 0.9 lb / .408kg
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	**Operating Range**	• -22°F to 158°F • -30°C to +70°C • IP64 rated
WAN protocol for cellular/satellite/other WAN connected interfaces.		**Security FIPS-140-2**	• Optional
Wi-Fi	• Dual Band Radio 2.4/5 GHz • 802.11a/b/c/g/n/ac	**VPN**	• IPSEC Tunneling
Processing	Intel Atom, 4 Gb RAM, 32 Gb Storage (eMMC)	**Warranty and Service**	• 1 Year Limited Hardware • 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