



Flexible Communications Platform

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

Mobile CORE may be mounted in any vehicle, secured in a portable backpack (CORE Patrol), installed in a rugged carry along case (CORE CommsKit) or located at a stationary facility. Designed for ease of use utilizing leading-edge technology, Mobile CORE is ready to keep pace with your growing communications needs.



The Basics

- Compact and rugged design allows for a variety of deployment solutions
- DC power
- No moving parts affected by vehicle movement
- 4 LTE channels / 4 SIM slots for each Mobile CORE
- Large, secure Wi-Fi coverage area for body cams, 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 through-out a large enterprise.

Scalability and Operational Ease

- Four cellular LTE radios onboard that can hold 4 SIM cards locally in the Mobile CORE's 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.
- Mobile CORE 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.
- 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 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 LTE 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 LTE connection. This requires no action by the operator.

FLEXIBILITY TODAY AND TOMORROW

Mobile CORE has four LTE radios on board that support all bands of LTE service, including all major North American carriers. This flexibility frees you from being limited to just one service provider when you purchase your LTE router and from having to replace your hardware when switching to a new cellular service provider.

Mobile CORE

Product Specification Data Sheet

Billet milled aluminum case for mobile, portable and office applications



AGILE ROUTING

Our devices automatically search for the best throughput connection available. If all LTE connections are lost, Mobile CORE will automatically connect to the satellite. If the device finds a LTE connection it will reconnect to the first available LTE service, hands-free. The customer does not have to monitor AGILE routing.

* Products: Mobile CORE X2, Mobile CORE-A2E

Systems: CORE Patrol X2, CORE Patrol LMR X2, CORE CommsKit X2, CORE Comms Kit LMR X2

Data Rates per LTE Channel, 4 Channels: (LTE Cat. 18)

- Uplink up to 150 Mbps
- Downlink up to 1.2 Gbps

Global: (Worldwide LTE) Bands Supported

- 4G: B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B32, B38, B39, B40, B41, B42, B43, B46, B48 (CBRS ready), B66, B71
- 3G: B1, B2, B4, B5, B8, B9, B19

* Products: Mobile CORE

Systems: CORE Patrol, CORE Patrol LMR, CORE CommsKit, CORE CommsKit LMR

Data Rates per LTE Channel, 4 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

4 3FF Micro SIM slots (optional SIM population via CORE Control 2)

Mobile CORE A2E/Mobile CORE X2 - 8 GSM antennas, one optional GPS antenna, the unit has 2 internally mounted Wi-Fi antennas.

Mobile CORE - 4 GSM antennas, one optional GPS antenna, the unit has 2 internally mounted WiFi 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

Wi-Fi

- Dual Radio
- Dual Band
- 2.4/5 GHz
- 802.11a/b/c/g/n/ac

Wired

- 6 => 4out+2in Gigabit RJ-45 Ethernet Ports
- 2 USB 2.0 Ports

WLAN Security

- WPA, WPA 2, WPA-PSK, WPA-EAP

GPS

- Active NMEA Passive NEMA

Structure Power

- 4 to 40 VDC

Dimensions

- 5 15/16" x 61/8" x 21/16"
- 151mm x 156mm x 52mm

Weight

- 3lb / 1.4 kg

Operating Range

- -22°F to 158°F
- -30°C to +70°C
- IP64

Security FIPS-140-2

- Optional

VPN

- IPSEC Tunneling

Warranty and Service

Standard

- 1 Year Limited

Optional

- 2, 3, 5 year

MORE BANDWIDTH LESS EXPENSE!



909 Ridgebrook Road, Sparks, Maryland 21152, USA
TEL : +1-410-583-1701 FAX : +1-410-583-1704
E-mail: sales@pulsesupply.com
<https://www.pulsesupply.com/agile-products>

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