



# Mobile CORE Mobile Communications Solution

## Vehicle Based Communications

The mobile CORE is a communications hub for vehicle based applications that integrates bonded multi-channel cellular LTE, WI-FI, GPS, and Land Mobile Radio extension capabilities. It is a small ruggedized and durable device that is suitable for small, medium or large number of units deployed in your organization. It has been built for ease of use, low maintenance and flexibility as well as with leading edge technology that will grow with your needs.

### KEY FEATURES

- Bonded LTE for session persistence through encrypted VPN
- Band 14 (FirstNet) ready
- Works with any cellular carrier (Changing carrier does not require hardware change)
- Dual concurrent 2.4/5ac, large footprint auto-meshing Wi-Fi
- 4 SIM capacity with 4 cellular modules
- Ruggedized and small, dependable and easily mounted in vehicle
- GPS tracking embedded in the unit and supports geo-fencing



### SCALABILITY AND OPERATIONAL EASE

- 4 cellular LTE radios onboard that can hold sim cards directly in the unit or virtually from the sim library maintained in your datacenter.
- Remote gateway management server to monitor, configure and check in on all gateways, reducing maintenance and skillset required onsite to support the units.
- All Mobile CORE's register to the server automatically when turned on and are visible for the entire duration on network
- Wi-Fi with a large effective range and secure for only the devices authorized.

Mobile CORE has sophisticated software onboard to manage cell tower hand offs as you move to maximize signal strength and the ability to automatically search for the best throughput connection available. The bonded LTE aggregates all cellular connections to maintain session persistence even if one or more cell connects drop due to the vehicle travelling out of range. The LMR extension functions in the background to detect loss of service to the trunked radio network and send the transmission over the VPN secure LTE connection in the 104. This requires no action by the operator.



### FLEXIBILITY TODAY AND TOMORROW

Mobile CORE has 4 cellular LTE radios onboard that covers most frequencies of service around the world, including all major North American carriers and is Band 14 ready. This flexibility allows not being limited with one service providers when you make your LTE router purchase or having to change your hardware if you are changing your service provider.



Mobile CORE is one element of AIS's communications solutions. Mobile CORE may be configured in a seamless network environment with multiple CORE and Mobile CORE units.



## PRODUCT SPECIFICATION SHEET

**Mobile CORE** - In steel table top case or billet milled aluminum (shown) case for office or vehicle application

### Specifications

4G LTE		Connectivity	
FirstNet Compatible		Wi-Fi	Dual Radio Dual Band 2.4/5 GHz 802.11a/b/c/g/n/ac
Bonded LTE		Wired	3 Gigabit RJ-45 Ethernet Ports 2 USB 2.0 Ports
LTE-Advanced		Bluetooth Connectivity	
Band Class	B1 (2100) B2 (1900) B3 (1800) B4 (1700) B5 (850) B7 (2600) B8 (900) B12 (700) B13 (700) B14 (700) B17 (700) B20 (800) B25 (1900) B26 (850) B29 (700) B38 (2600) B39 (1900) B40 (2300) B41 (2500/TDD)	WLAN Security	WPA, WPA 2, WPA-PSK, WPA-EAP
		GPS	Active NMEA Passive NEMA
		<b>Structure</b>	
		Power	11 to 57 VDC
		Dimensions	6"x6"x1" 152mm x 152mm x 25.4mm
		Weight	3lb / 1.4 kg
		Operating Temperature	-32F to 115 /0°C to +45°C
		<b>Security</b>	
		FIPS-140-2	Optional
		VPN	IPSEC Tunneling
		<b>Warranty and Service</b>	
		Standard	1 Year Limited
		Optional	2, 3, 5 year
<b>3G / WCDMA</b>	B1 (2100), B2 (1900), B3 (1800), B4 (1700), B5 (850), B8 (900) TDSCDMA: B34 (2000), B39 (1900+)		