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AGILE CAGE: 7WTH2
AGILE DUNS: 080324701
NAICS CODE: 334220
GSA MAS CONTRACT NUMBER: 47QTCA19D0052

Twin CORE 5G

Flexible Communications Platform

Twin CORE 5G is a compact ruggedized communications hub built for a variety of applications. Twin CORE 5G is a durable device that integrates bonded multi-channel cellular 5G LTE, Wi-Fi, GPS, and optional Land Mobile Radio extension capabilities. Twin CORE 5G may be mounted in any vehicle, installed in a rugged carry along case (CORE CommsKit) or located at a stationary facility. Designed for ease of use utilizing leading-edge technology, Twin CORE 5G 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 / AC power (optional)
- No moving parts affected by vehicle movement
- 2 5G channels with LTE fallback / 2 SIM slots for each Twin 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 throughout a large enterprise

Scalability and Operations

- Two 5G radios onboard with LTE fallback. With 2 SIM slots locally or virtually from an optional CORE Control 2 system installed at your datacenter.
- The remote management server CORE Control 1 monitors, configures and checks in on all CORE systems reducing maintenance, downtime while providing integrated system status reports.
- Twin CORE 5G 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 Twin CORE 5G 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 Twin CORE 5G 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.

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Twin 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: Twin CORE X5, Systems: Twin CommsKit X5, CORE Comms Kit LMR X5			
Data Rates per 5G Channel, 2 Channels	• 5G SA Sub-6: Download 2.4 Gbps; Upload 900 Mbps • 5G NSA Sub-6: Download 3.4 Gbps; Upload 550 Mbps	**Wired**	• 3Gigabit RJ-45 Ethernet Ports • 1 USB 2.0 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, 2 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**	• 6 1/8" x 3 5/8" x 2 1/4" • 160mm x 92mm x 55mm
2 3FF Micro SIM slots (optional SIM population via a CORE Control 2 system		**Weight**	• 1.2lbs / .547kg
Twin CORE X5	4 GSM antennas, one optional GPS antenna, the unit has 2 internally mounted Wi-Fi antennas	**Operating Range**	• -22°F to 167°F • -30°C to +75°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