Harris Fusion™ Tactical Cellular

KEY BENEFITS
- Enhanced data capacity and transfer speeds
- Requires no infrastructure backbone
- Completely rugged design
- Intuitive user interface
- Flexible system solution scales with customer applications
- Private, secure, high bandwidth connectivity

Harris Fusion Tactical Cellular is a robust, easily deployable turnkey system that brings commercial 4G LTE cellular and wireless networking standards to the tactical environment. A complete, stand-alone solution for deployments from headquarters to the network edge, it delivers high-bandwidth, low-latency wireless data services that are otherwise unavailable with today’s networks.

Fusion Tactical Cellular can be hard mounted to mobile vehicles or deployed on temporary masts at tactical operations centers or communications shelters, making it suitable for military, public safety and security force operations. Comprised of three main components—ruggedized eNodeB radio, Harris Evolved Packet Core (EPC) LTE software, and Android™ based edge devices—it provides a complete, self-contained LTE “bubble” that maintains operations without a large infrastructure backbone. Within this bubble, users have access to voice, messaging, and video services with high data capacity and transfer speed—even at the network edge.

Incorporating standard, IP-based networking interfaces, the Fusion system provides flexible and straightforward integration with existing customer networks. When fully integrated, it can also provide a common operational picture for these networks—as well as create a wider area of operation by interconnecting multiple Fusion systems.

With its high-bandwidth wireless networking capability, its intuitive user interface, and its flexibility in mobile deployments and challenging environments, Fusion Tactical Cellular is leading the way in battlefield communications innovation.
Specifications for:
Harris Fusion™ Tactical Cellular

**GENERAL**

| Technology                  | Rugged eNodeB: 4G LTE 3GPP Release 9  
|                            | Harris LTE core: 4G LTE 3GPP Release 10  
| Wireless Services          | Voice calls  
|                            | Messaging  
|                            | Situational Awareness & Mapping  
|                            | Imagery and Video  
|                            | Internet Browsing  
|                            | IP Data  
| Harris LTE Core            | LTE Evolved Packet Core  
|                            | Built-in voice call manager  
|                            | Integrated user interface  
| Number of Users            | 32 simultaneous active users  
|                            | >100 provisioned users  
| Color Options              | Available in Green or Tan  
| Max System Throughput      | 70 Mbps downlink  
|                            | 20 Mbps uplink  

**HARRIS RUGGED ENODE-B**

| LTE Frequency Options      | Band 13, 14, 28; other band availability upon request  
|                            | Band 17 (future option)  
| Bandwidth                  | 10MHz capable (LTE band dependent)  
| LTE Antennas               | N-Type, 50-ohm  
|                            | 2x2 MIMO  
| GPS                        | Integral  
|                            | TNC-Type, 50-ohm  
| Transmit Power             | Up to 5W average/channel  
| Physical                   | Weight: <12.5 kg (<27.5 lbs)  
|                            | Dimensions: 32 x 40 x 13 cm (12.6 x 15.7 x 5.1 in)  
| Environmental              | MIL-STD-810G  
| Power                      | MIL-STD-1275  
|                            | 28VDC  
|                            | <125W  
| Data Interface             | RJ45, weather tight cap  
|                            | Gigabit Ethernet  

**HARRIS LTE CORE**

| Harris Evolved Packet Core | Single form factor, stand-alone package  
|                            | Includes MME, SGW, PGW, and HSS  
|                            | Scalable from 10s to 1000s of users  
| Additional Features        | Integrated voice call manager  
|                            | Element Management System  
|                            | Simplified field programming and monitoring tools  
|                            | Broad interface and feature support—contact Harris for more details  

**PRODUCT OPTIONS**

| Light Tactical             | Harris rugged eNodeB with embedded server  
|                            | Harris LTE core  
|                            | 2x antennas, 20x provisioned Harris SIM cards  
|                            | Power, RF and data cables  
| Forward Deployable         | Harris rugged eNode-B, Harris rugged server  
|                            | Harris LTE core  
|                            | 2x antennas, 20x provisioned Harris SIM cards  
|                            | Power, RF and data cables  

**ACCESSORIES**

| Harris SIM Card             | 12146-S100-01  
| Rugged Tablet               | RF-3590-RT300  
| Rugged Laptop               | RF-3577-28EN  
| Commercial Phone Options    | Available upon request  
| Deployable Mast             | RF-S941-LM101, RF-S941-LM155  
| Power Supply                | RF-S051-P5001/005 (green/tan)  

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