The Cordis Array II (CRE2) product family meets the demands for tactical missions where reliable high capacity communication and data transfer are crucial for efficient and safe execution. The system operates in C-band and is field proven with high data rate communication over distances in excess of 200 kilometers. Phased array technology with electronic beam steering and narrow radiation beams enables long-range broadband communication unmatched by conventional tactical systems.

**Robust with encryption**
The CRE2 enables robust high-speed data, voice and video transfer between multiple nodes in an ad hoc network. The CRE2 units handle signal obstructions providing stable and robust wireless connections for tactical operations in rural areas. The CRE2 units can in addition operate up to distances in excess of 200 kilometers in line of sight conditions. Wireless link protected with embedded AES-256 encryption implemented in hardware.

**Connecting remote nodes**
The CRE2 connects squads and their resources with a high capacity digital communication channel. QoS handles low latency data streams and high priority sensor streaming. The system may transfer encrypted data from a diverse selection of operational sources. Utilizing live video, location data and other sensors, remotely situated teams can work together seamlessly. Coordination of activities for optimal performance and safety ensures operational success.

**IP connectivity**
CRE2 technology supports complex operations that may involve a large number of information nodes and diverse information streaming between all nodes in a network. End-to-end IP connectivity provides cost efficient integration and an interoperable solution for seamless data exchange.

**Easy to install**
The unit is easy to install, comprising only the unit itself and Ethernet/Power connection through a single connector.

**Easy to operate**
CRE2 is an ad-hoc tactical network that requires no extra infrastructure or equipment. This makes it a simple solution to use and maintain, enhancing efficiency in coordinated operations. The electronic phase array system operating at microwave frequencies with narrow antenna beams has a jamming robustness unmatched by conventional tactical data links.

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1 Line of sight application at 7 Mbps
FEATURES

- Phased array wireless data-link
- IP based
- Ad hoc network
- AES-256 link encryption embedded in hardware
- High bandwidth
- Long range
- Field proven
- Radio and antennas integrated in the product
- Easy to install and operate
- For manned aircrafts and helicopters

TECHNICAL SPECIFICATIONS

CRE2-179-AM

ELECTRICAL PARAMETERS
- Power supply: 19-55 VDC
- Data interface: Ethernet 10/100baseT

WIRELESS PARAMETERS
- Available data capacity: 15 Mbps
- Wireless encryption: AES-256

RF SPECIFICATIONS
- Frequency band: 4900 MHz to 5900 MHz

MECHANICAL PARAMETERS
- Size: 371 x 377 x 53.2 mm
- Weight: 5 kg
- Color: Light grey (RAL7040)

EMC
- Radiated emissions: MIL-STD-461F RE102
- Conducted emissions: MIL-STD-461F CE102
- Radiated emissions, spurious & harmonics: MIL-STD-461F RE103

ENVIRONMENTAL
- Ambient operational temperature range: -60 °C to +55 °C
- Environmental testing of avionics: RTCA DO-160G

Specifications subject to change without any further notice.