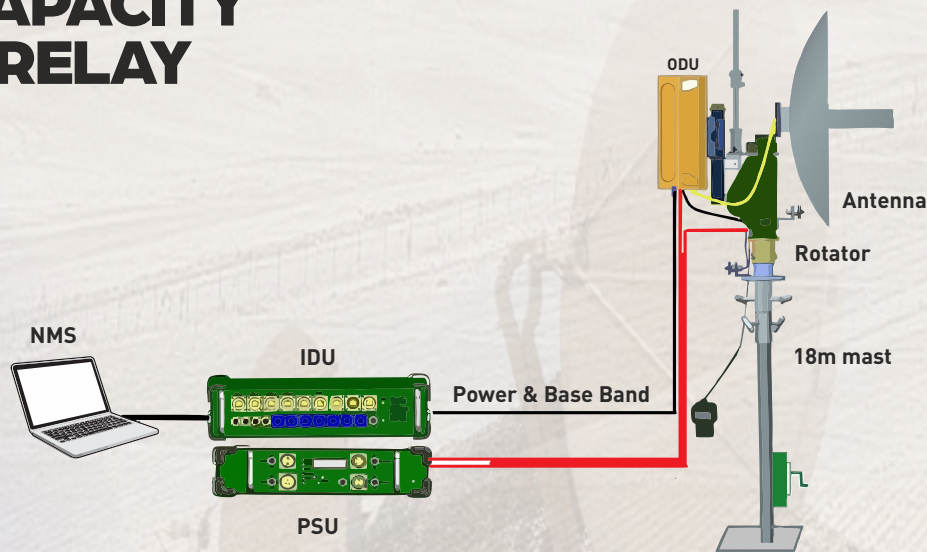


HFCL HIGH CAPACITY RADIO RELAY

- High Capacity Radio Relay (HCRR) is a Line-of-Sight (LOS) radio operating in the frequency band 4400 – 5000MHz
- It is intended to use in tactical network, for long haul transmission of data traffic. HCRR is a state-of-the-art technology
- It provides features such as 100Mbps data rates, Point to Point, Point to Multi-Point, adaptive power control, forward error correction and Frequency Hopping (FH) ECCM
- The HCRR is designed for long range communication in benign climatic conditions and high altitude terrains
- Major sub-systems of the HCRR are ODU, IDU, Antenna, telescopic mast, rotator and Network Management System (NMS) as shown overleaf.



HIGH CAPACITY RADIO RELAY



SPECIFICATIONS

OUTDOOR UNIT

- Frequency Range 4.4 – 5.0 GHz
- Transmission Capacity 2048, 4096, 8448, 16384, 34368 kbit/s, 70 and 100 Mbit/s
- Supports modulation CPM / 16 QAM / 64 QAM
- Secure EoW over ethernet

ENVIRONMENTAL AND EMI/EMC

- Environmental: JSS 55555
- EMI/EMC: MIL-STD 461E

POWER SUPPLY

- Input Voltage: 19-60 VDC
- Power consumption: <100W

INDOOR UNIT (IDU)

- Multiplexes various user traffic and services
- Provide electrical/optical user data interfaces
- NMS and EoW facility
- Facilitate to interface TDM traffic
- Bite and Self-Test feature

ANTENNA SYSTEM

- Lightweight and easy to carry
- Point to Point and Point to multi point applications

MAST SYSTEM

- Electromechanical 18m mast system
- Designed for vehicle mounted and ground deployment

ROTATOR

- Designed for antenna rotation in $\pm 180^\circ$ horizontal & $\pm 10^\circ$ vertical plane
- Operated through network management, pendant and manual rotation.

NMS

- NMS application on ruggedized laptop is SNMP V3.
- Control, configure and monitor equipment parameter over IP network
- Features of remote diagnostics self-testing and report generation

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