

# N1000 Network Interface Unit

## Integrated Outdoor Network and Power Unit



### Features & Benefits

- Range extension for shelter interconnect
- AC/DC converter - wide input voltage range
- Ruggedized network and power interfaces
- Antenna alignment aid
- Local and remote web-based management
- 1 Gbps switching capabilities
- Rugged, lightweight and easily transportable

The N1000 is an external switch and power unit, optional for the Ultra ORION 3-channel family of radios, capable of up to 1 Gbps throughput. It is designed to be installed in harsh outdoor environments and has operator aids for networking and alignment. The network interface unit offers a TFOCA-II fiber interface for extended connections to the shelter or vehicle. It facilitates deployments by providing operators with a ruggedized and reliable enclosure, designed to be lightweight and easily transportable. An optional transit case is also available.

The N1000 is capable of 1 Gbps switching and provides interfaces for external connections to the radio system. It includes AC to DC power conversion, an interconnection port for the Ultra ORION radio, 4 Gigabit Ethernet ports as well as an optional fiber port.

Three 10/100/1000 Mb/s RJ-45 Ethernet traffic PoE ports are available to the operator to use for external equipment and a fourth management port can be used to configure the radio. A

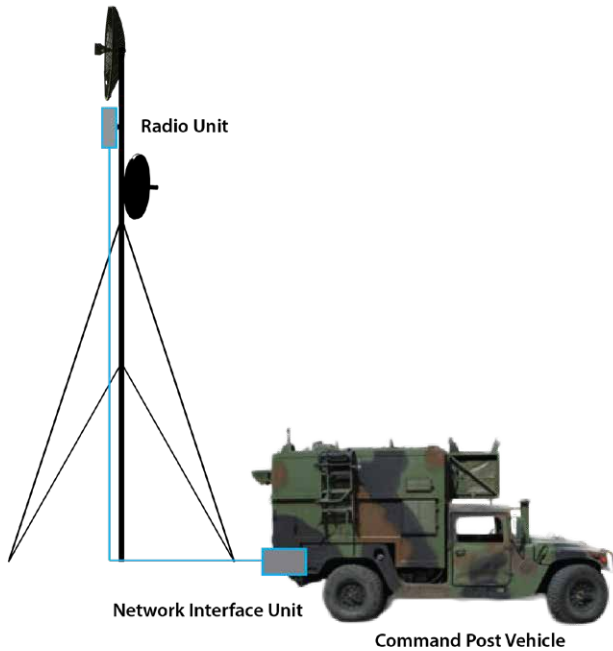
TFOCA-II fiber port supporting either 100Base-FX (100 Mbps) or 1000Base-LX (1 Gbps) fiber connectivity depending on the N1000 variant is also possible enabling range extensions between the communications shelter and the radio mast of up to 1 km. A single data and power cable connects the network interface unit to the radio.

Alignment LEDs are available on the N1000 front panel, enabling simple and quick radio alignment for each of the Ultra ORION's two channels. Radio and N1000 status LEDs are also available to indicate the health of both units. The LEDs can optionally be muted.



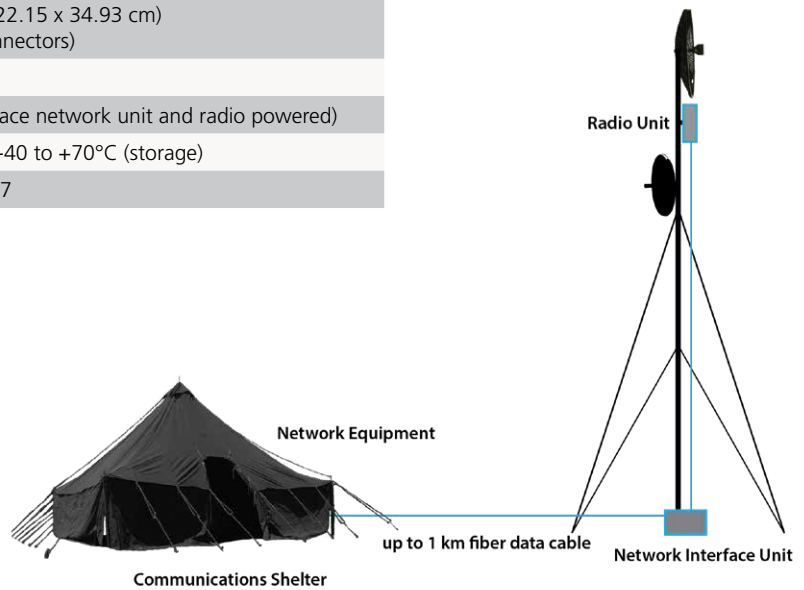
### N1000 network interface unit variants include:

- N1000-LX (1000Base-LX optical interface)
- N1100-FX (100Base-FX optical interface)
- N1000-00 (without optical interface)



### Specifications

| Parameter                      | Specification  |
|--------------------------------|--|
| Input Voltage Range            | 88 to 264 VAC (47 to 63 Hz)  |
| Physical Ports                 | 1x Gigabit Ethernet inter-unit (network interface unit to radio)<br>3x Gigabit Ethernet Data LAN<br>1x Gigabit Ethernet Management LAN<br>1x Serial maintenance port<br>1x Fiber port TFOCA-II |
| PoE                            | 802.3 at/af  |
| Dimensions                     | 7 x 8.72 x 13.75" (17.8 x 22.15 x 34.93 cm)<br>(including handles and connectors)  |
| Weight                         | 13 lbs (5.9kg)   |
| Power Consumption              | 150 W, 165 VA typ. (interface network unit and radio powered)  |
| Operating External Temperature | -40 to +60°C (operating), -40 to +70°C (storage)   |
| Environmental                  | MIL-STD-810G & 461F, IP67  |



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