Multifunction Digital Adapter

The Multifunction Dual Adapter (MDA) is a space-efficient, low-cost voice/data adapter, ideal for mobile applications. It provides multiple functions configurable from a front-panel keypad and LCD interface. One configuration provides a replacement for the DTA/DPA in BRAVO ONE and BRAVO TWO modes. It also provides enhanced MIL-188-114 data rates of 128K/256K/512K bps and a fiber optic network interface option. The MDA's four-phone mode allows four phones to be remoted over the selected network interface.

Additionally, the MDA data capabilities allow secure data to be transported through the SDS or DSS switch utilizing the existing switch bandwidth and security authentication level (SAL) procedures to provide an authenticated multi-level secure data capability. The SNMP (Simple Network Management Protocol) agent allows the target (MDA) to be remotely configured and/or remotely queried to determine near real-time failure and status information, providing valuable information for diagnosing and correcting network problems.

features

- Functional replacement for the DTA/DPA in BRAVO ONE and BRAVO TWO modes
- Two Network interfaces: MIL-188-114 and 62.5/125μm multimode fiber
- Four-phone support that allows four phones to be remoted over the selected network interface
- SNMP agent to allow the target MDA to be configured/queried remotely by an SNMP manager
- Enhanced MIL-188-114 data rates of 128K/256K/512K bps
- AC input, 90-264VAC, 47-63Hz. No external DC power supply required
- Front panel LCD and keypad for mode selection and link status
- Space efficient half-height disk-drive form factor – can be mounted in a standard KIV-7 nesting rack

Multifunction Digital Adapter

Network Interface

The MDA provides two network interfaces. Selection of the network interface is accomplished with the front-panel keypad. Providing different network interfaces allows a great deal of flexibility when planning and deploying the remote CCSS phones. Each of the network interfaces is discussed below.

- Fiber – MTRJ interface supports fiber distances up to 5000 ft. and use of inexpensive 62.5/125µm multimode fiber cables.
- MIL-188-114 – Copper interface supports separate clock and data for installations that require external crypto equipment.

Data rates supported: 56K/64K/128K/256K/512K bps.

Data Capability

The MDA provides a 10Mbit Ethernet interface allowing it to transport secure data through the SDS or DSS switch. An RJ-45 Ethernet connector is provided on the rear panel of the unit for easy connection to a PC or HUB. Data capability selection is accomplished using the front panel

Timing

The MDA is capable of deriving timing from either the network or UDLT interface. In network timing mode, either the MIL-188-114 interface or the Fiber interface can be selected as the timing source. In UDLT timing mode, internal timing monitor circuitry selects an active UDLT port from which timing is derived. Timing source selection is provided the front panel keypad and LCD interface.

Keypad/LCD

A three-button keypad and LCD provide the following functions:

- Configuration of the MDA unit
- Visual confirmation of the selected mode
- Network link status
- Phone status

Specifications

Power:
MDA at remote end, UDLT interfaces supplying 48V power to phones: 64 watts, 218 Btu/h

MDA at switch end, UDLT interfaces NOT supplying 48V power to phones: 8 watts, 27 Btu/h

Dimensions: 5.88" x 1.68" x 8" W x H x D

Reliability: More than 150,000 hours @ 25° C