

MDA

Multifunction Digital Adapter



General Information

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. A fiber optic network interface is another selectable option. A four-phone mode is provided, allowing 4 phones to be remotored 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. Another new capability provided by the MDA is the SNMP (Simple Network Management Protocol) agent, which 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 62.5/125 μ m multimode fiber.**
- **Four phone support which allows 4 phones to be remotored 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, 90-140VAC, 50 or 60 Hz. 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.**

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 planing 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 62.5/125 μ m 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 keypad/LCD interface.

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 from the front panel keypad and LCD interface.

Keypad/LCD

A 3 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 deg. C.

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