

Software Product Description

PRODUCT NAME: DECconcentrator 500 Software Microcode, Version 3.4a

SPD 32.29.08

DESCRIPTION

DECconcentrator 500 Software Microcode is dedicated Microcode that runs in the DECconcentrator 500 hardware platform:

DEFCON-AA, -AB, -AC, -AD, -BA, -BB, -BC, -BD

The Microcode is stored in electrically alterable ROM that resides in the DEFCON-A*, -B* hardware platform and is maintained over power outages and system resets. The DECconcentrator 500 hardware platform is designed to comply with the ANSI X3T9.5 FDDI Standard.

The DECconcentrator 500 hardware platform can be configured to suit specific customer application and cable plant requirements. It supports management modules with Dual-Attachment-Station (DAS) ports ("A" and "B" ports), which can directly connect to an FDDI dual ring, as well as support for several multi-port module options (with SAS "M" Ports) to connect devices via the concentrator to the FDDI dual ring. Depending on the option selected, there is support for several media types including Multimode Fiber (MMF), Single-Mode Fiber (SMF), Shielded Twisted-Pair (STP), and ThinWire coax (TW). Both Digital and non-Digital FDDI devices, such as workstations, servers, systems, bridges, etc., can be connected to FDDI dual ring networks via the concentrator.

The DECconcentrator 500 hardware platform is shipped from the factory with the DECconcentrator 500 Software Microcode preloaded and can be updated via downline load when new versions of the Microcode are issued.

General characteristics of the DECconcentrator 500 Software Microcode are:

- Performs initialization and module bootstrapping.
- Performs diagnostic selftest automatically at power-up and also when initiated by network management software.
- Performs FDDI Station Management (SMT) as specified by the ANSI X3T9.5 SMT V7.2 draft standard, including support for PMF "sets."

- Holds and updates all the DECconcentrator 500 counters and settable parameters.
- Supports reception, processing, and transmission of remote network management packets generated by network management software utilizing SNMP (including simple sets), RBMS, MOP, or SMT protocols. Requires a Management Module:
 - DEFCON-MA, -MB, -MF, -MH, -CA, -CF, -DA, -DF, -EA, -EF
- SNMP mib support includes MIB II (RFC 1213), FDDI mib (RFC 1285) and a DEC vendor mib.

Note: Exact compliance with RFC 1285 is not possible due to conflicts between it and ANSI X3T9.5 SMT V7.2. See release notes for details.

- Supports an additional SNMP trap, in the DEC vendor mib extension, for the unsolicited notification of port status changes.
- Supports downline load of new firmware when initiated via MOP for upgrades - requires a Management Module:
 - DEFCON-MA, -MB, -MF, -MH, -CA, -CF, -DA, -DF, -EA, -EF
- Supports both fiber optic and copper media Port Modules:
 - DEFCON-LA, -LF (4) Low-Power MMF-Optic Ports
 - DEFCON-NA, -NF (4) ANSI MMF-Optic Ports
 - DEFCON-HA, -HF (6) ANSI MMF-Optic Ports
 - DEFCON-FA, -FF (2) ANSI SMF-Optic and (2) ANSI MMF-Optic Ports
 - DEFCON-SA, -SF (6) Shielded-Twisted-Pair (STP) Ports
 - DEFCON-TA, -TF (6) ThinWire (TW) Ports
- Provides a Ring Purger algorithm to eliminate no-owner frames (can be disabled and enabled via network management).

- Provides Out-of-Band-Management (OBM) support via an ASCII terminal port on the DEFCN-AC, -AD and DEFCN-BC, -BD hardware platforms (does not include modem control). When required, remote dial-in can be accomplished by adding a "smart modem."
- Provides for the control of third-party Optical-Bypass-Relays (OBR) connected via the DEFCN-MB, -MH Management Modules.

HARDWARE REQUIREMENTS

A DECconcentrator 500 hardware platform is required to run DECconcentrator 500 Software Microcode:

DEFCN-AA, -AB, -AC, -AD, -BA, -BB, -BC, -BD

SOFTWARE LICENSING

The software license required to run DECconcentrator 500 Software Microcode is included with the DECconcentrator 500 hardware platform purchase.

This software is furnished only under a license. For more information about Digital's licensing terms and policies, contact your local Digital Office.

SOFTWARE WARRANTY

Warranty for this software product is provided by Digital with the purchase of a license for the product as defined in the Software Warranty Addendum of this SPD.

The above information is valid at time of release. Please contact your local Digital office for the most up-to-date information.

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