

# Software Product Description

PRODUCT NAME: OSI PC Gateway™ for UNIX®, Version V2R1

SPD 38.94.00

## DESCRIPTION

OSI PC Gateway for UNIX software is a Digital Distributed Software product from Eicon Technology Corporation. It works in conjunction with a DS206-XX board and allows suitably configured standalone personal computers to connect to Packet Switching Data Networks (PSDNs) conforming to CCITT recommendation X.25 (1980 or 1984). OSI PC Gateway for UNIX software allows a personal computer to function as Data Terminal Equipment (DTE) or Data Circuit Terminating Equipment (DCE).

## Features

OSI PC Gateway for UNIX software features include:

- CCITT Recommendations X.25 and X.121 (1980 and 1984) compliance
- X.32 compliance
- Complete set of X.3/X.28/X.29 PAD functions
- Implementation of the OSI Transport Class 0 and 2
- Support for HDLC protocol layer and for the GOSIP-compliant LAPB protocol layer
- Streams/TLI support
- Configuration utility
- Protocol Trace utility
- Dump File program

## X.25 and X.121 (1980 and 1984) Compliance

The OSI PC Gateway for UNIX Software complies with CCITT recommendations X.25 and X.121 (1980 and 1984).

The X.25 features include:

- Supports X.21 link level protocol
- Up to 254 virtual circuits
- Permanent or switched virtual circuits
- Packet size: 64 to 4096
- Window size: 1 to 127

- DTE/DCE addressing
- Internal/external clocking

The X.25 optional user facilities include:

- Reverse charging
- Fast select
- Closed user group
- Throughput class negotiation
- Packet and window size negotiation
- Network User Identifier (NUI)
- DTE address extension

## X.32 Compliance

The OSI PC Gateway for UNIX software supports two different implementations of HDLC protocol: HDLC and HDLC-X32. HDLC-X32 is a variation of HDLC that conforms to Transpac (France) and is most often found in Europe.

## X.3/X.28/X.29 PAD Functions

The OSI PC Gateway for UNIX software provides a complete implementation of CCITT X.3, X.28, and X.29 PAD functions.

The CCITT PAD interfaces provides transparent access to the integrated PAD via industry standard interfaces for asynchronous communications.

**OSI Transport Class 0 and 2**

The OSI PC Gateway implements OSI Transport Class 0 and 2 and serves as a platform for OSI Applications such as X.400 or File Transfer, Access & Management (FTAM). *HDLC Protocol Layer and GOSIP-Compliant LAPB Protocol Layer*

The OSI PC Gateway supports HDLC protocol layer, HDLC-X32 as used by the Transpac network in France, HDLC-X32E as used by Ericsson switches, and the GOSIP-compliant LAPB protocol layer for Connection-Oriented networks services.

**Stream/TLI Standard Interface Support**

The OSI PC Gateway for UNIX software provides support for the Transport Layer Interface (TLI). The Stream/TLI support package allows communications applications written for the Transport Layer Interface to transparently use the DS206-XX card as their communications platform.

**Configuration Utility**

OSI PC Gateway for UNIX software includes a software configuration utility, Eccfg, to configure the protocol software that will be loaded onto the communication controller. The communication protocol software has a number of parameters which are set to default values that in most cases will not have to change. However, some parameters are directly dependent upon the connections.

**Protocol Trace Utility**

The Protocol Trace utility is used to view the communications data streaming through an X.25 connection. In most cases, the Protocol Trace utility will be used under guidance from a Digital Customer Services Engineer, who will analyze the trace.

**Dump File Program**

The Dump File program is used to dump the content of memory to a file of the communication controller. In most cases, the Dump File program will be used under guidance from a Digital Customer Services Engineer, who will analyze the dump.

**HARDWARE REQUIREMENTS****Processors Supported**

80386- and 80486-based Digital personal computers

**Disk-Space and Memory Requirements:**

- Disk Size: 2 Mbytes minimum
- RAM: 4 Mbytes minimum
- Either a 1.2 Mbyte 5.25-inch floppy disk drive, or a 1.44 Mbyte 3.5-inch floppy disk drive

**Communication Controller:**

- DS206-AA, EiconCard™ PC (EIA)
- DS206-CA, 2 Port EiconCard HSI

**Communication Controller Cables**

- BC09U-10, Eicon PC RS232-C Modem cable
- BC09V-10, Eicon HSI V.24 Modem cable
- BC09W-10, Eicon HSI V.35 Modem cable
- BC09X-10, Eicon HSI X.21 Modem cable

**SOFTWARE REQUIREMENTS**

SCO™ UNIX Release 3.2 V4 (see SPD 39.81.xx)

**OPTIONAL SOFTWARE**

- X.25 Network-Level Developer's Toolkit™ for UNIX—Required software for the development of user application programs under SCO UNIX to communicate with an X.25 network through a set of high-level-language functions. For more information, refer to the Software Product Description for X.25 Network-Level Developer's Toolkit for UNIX (SPD 38.97.xx).
- IP Router for UNIX™—Required software to route TCP/IP network traffic over DS206-XX cards that connect to X.25 network. For more information, refer to the Software Product Description for IP Router for UNIX (SPD 38.99.xx).

**GROWTH CONSIDERATIONS**

The minimum hardware/software requirements for any future version of this product may be different from the requirements for the current version.

**ORDERING INFORMATION**

Software License, Documentation, and Media (5.25-inch and 3.5-inch floppy disks): QB-MJQAA-WW

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