Software Product Description

PRODUCT NAME: OSI PC Gateway for OS/2®, Version V2R2   **SPD 43.25.00**

DESCRIPTION

OSI PC Gateway for OS/2 software is a Digital Distributed Software product from Eicon Technology Corporation. It is a PC communications software product which works in conjunction with either the DS206-XX or the DS216-XX synchronous communications controller. It allows suitably configured standalone personal computers running under OS/2 to connect to Packet Switching Data Networks (PSDN) conforming to CCITT recommendation X.25 (1980 or 1984). OSI PC Gateway for OS/2 software allows a personal computer to function as data terminal equipment (DTE) or data circuit terminating equipment (DCE).

Features

OSI PC Gateway for OS/2 Software Features

- CCITT Recommendations X.25 and X.121 (1980 and 1984) compliance.
- X32 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 prototol layer.
- Configuration utility.
- Protocol Trace utility.
- Dump file program.

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

The OSI PC Gateway for OS/2 Software complies with CCITT recommendations X.25 and X.121 (1980 and 1984). The X.25 features include :

- ISO 8208/CCITT X.25 PLP compliance.
- ISO 7776/CCITT X.25 LAP-B compliance.
- Support X.21 link level protocol.
- 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.
- DTE address extension.
- 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.

X.32 Compliance

The OSI PC Gateway for OS/2 software supports three different implementations of HDLC protocol: HDLC, HDLC-X32, and HDLC-X32E. HDLC-X32 is a variation of HDLC and is most often found in Europe. X.32 conforms to Transpac (France) and X32E to Ericsson ERIPAX.

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

The OSI PC Gateway for OS/2 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 (ISO 8073/CCITT X.224) 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 Prototol Layer*

The OSI PC Gateway supports three HDLC protocol layers: HDLC-X32 as used by the Transpac network in France; HDLC-X32E as used by Ericsson switches; and the GOSIP-compliant LAPB prototol layer as used by connection-oriented networks services.

Configuration Utility

OSI PC Gateway for OS/2 software includes a software configuration utility, SETUP, which guides the user to configure the protocol software that will be loaded onto the communications controller. The communications protocol software has a number of parameters which are set to default values, that in most cases, will not have to change. However, there are certain parameters that are directly dependent upon the connections.

Protocol Trace Utility

The Protocol Trace utility is used to view the communications data streaming through X.25 connection. In most cases, the protocol Trace utility will be used under the guidance from Digital Customer services, 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 communications controller. In most cases, the Dump File program will be used under the guidance of Digital Customer Services, who will analyze the dump.

HARDWARE REQUIREMENTS

Processors Supported:

80386- or 80486-based Digital personal computers.

Disk Space and Memory Requirements:

OSI PC gateway for OS/2 requires:

- Disk size: 3 MB minimum.
- RAM: 640 KB minimum.
- A 1.2 MB 5.25 disk drive, or a 1.44 MB 3.5-inch disk drive.

Communications Controller:

- *ISA bus*
  - DS206-AA, EiconCard PC (EIA).
  - DS206-CA, 2 Port EiconCard HSI (EIA).
- *MCA bus*
  - DS216-AA, EiconCard PC (MCA).
  - DS216-BA, EiconCard HSI (MCA).

Communications 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

- IBM OS/2 Extended Edition, Version 1.1 or later, or
- Microsoft® OS/2, Version 1.21.

OPTIONAL SOFTWARE

X.25 Network-Level Developer's Toolkit for OS/2 (SPD 38.95.xx)

The X.25 Network-Level Developer's Toolkit for OS/2 contains libraries of C functions for the development of user application programs under OS/2 to communicate with an X.25 network.

Table 1
Product Family

	DOS	WIN	OS/2	UNIX®
Gateways:				
OSI PC Gateway	X		X	X
OSI LAN Gateway	X		X	IP Router
SNA PC Gateway	X		X	
SNA LAN Gateway	X		X	
Emulations:				
Access VT220	X			
Access 3270	X	X	X	
Access 5250	X	X		
Toolkits:				
X.25 Devel. Toolkits	X	X	X	

GROWTH CONSIDERATIONS

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

DISTRIBUTION MEDIA

5¼-inch and 3½-inch diskettes.

ORDERING INFORMATION

Software license, documentation, and media (5¼-inch and 3½-inch diskettes): QB-046AA-WW

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