Software Product Description

PRODUCT NAME: X.25 Network-Level Developer's Toolkit for OS/2®,

SPD 38.95.00

Version R1.10

DESCRIPTION

The X.25 Network-Level Developer's Toolkit for OS/2 is a Digital Distributed Software product from Eicon Technology Corporation. It allows programmers to write end-user applications that can communicate through either the OSI PC Gateway for OS/2 (described in SPD 43.25.xx) or the OSI LAN Gateway for DOS & OS/2 (described in SPD 38.77.xx).

The X.25 Network-Level Developer's Toolkit supports PVCs and SVCs including incoming only, outgoing only, and two-way connections. It can control up to 254 virtual circuits.

The toolkit supports optional user facilities such as Network User Identification (NUI), reverse charging, Call User Data, Closed User Groups (CUG), throughput class negotiation, and window size negotiation.

The X.25 Network-Level Developer's Toolkit also offers support for X.25 Mb, Qb, Db, interrupt packets, and reset packets.

Features

The X.25 Network-Level Developer's Toolkit includes the following features:

- Full support for the CCITT recommendation X.25 (1980 and 1984) including extended format and ISO 8208.
- Supports up to 254 virtual circuits.
- Window size configurable from 1 to 127.
- Packet size 64, 128, 256, 512, 1024, 2048, or 4096 bytes.
- Supports permanent virtual circuits and three types of switched virtual circuits: incoming only, outgoing only, and two-way.
- Support for X.25 Mb, Qb, and Db.
- DTE/DCE addressing.
- Internal/external clocking.
- Support for interrupt and reset packets.

The X.25 Network-Level Developer's Toolkit provides the following user facilities:

- Flow control parameter negotiation including packet size and window size.
- Throughput class negotiation.
- · CUG selection.
- · CUG with outgoing Access selection.
- · Bilateral CUG selection.
- · Reverse charging.
- Fast select.
- NUI.



Table 1 Toolkit Functions

x25listen() Accept an incoming call
x25mkconn() Dynamically obtain a connection identifier for an already existing connection
x25packetstats() Return packet-level statistics for a specified connection
x25pcause() Display an X.25 library clearing cause message
x25pdiag() Display an X.25 library diagnostic message
x25perror() Display an X.25 library error message
<pre>x25pvccall() Set up a virtual circuit to a specified DTE via a PVC</pre>
x25recv() Receive data from a remote DTE
x25reset() Reset a virtual circuit
x25resetconfirm() Acknowledge a reset indication
x25send() Send data to a remote DTE
<pre>x25sendconfirm() Acknowledge a packet received with the D-bit</pre>
<pre>x25sendexp() Send expedited data (interrupt data) to the remote DTE</pre>
x25sendexpconfirm() Send an expedited data confirmation packet
x25status() Get the status of a session
x25version() Return the X.25 Network-Level Developer's Toolkit version number
x25xcall() Set up a virtual circuit to a specified DTE, allowing extended use of parameters
<pre>x25xhangup() Terminate a connection using the extended packet format</pre>
x25xhangupconfirm() Confirm the reception of clear indication using extended packet format
x25xlisten() Accept an incoming call and establish a virtual circuit, allowing extended use of parameters

HARDWARE REQUIREMENTS

Processors Supported:

80386- and 80486-based Digital personal computers.

SOFTWARE REQUIREMENTS

- IBM® OS/2 Extended Edition, Version 1.1 or later, or
- Microsoft® OS/2, Version 1.21
- OSI PC Gateway for OS/2, Version V2R2 (see SPD 43.25.xx), or
- OSI LAN Gateway for DOS & OS/2, Version V2R2 (see SPD 38.77.xx).

The use of a C or a Pascal compiler is required (where applicable) to develop application programs.

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 diskettes): QB-MHZAA-WW

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