Software Product Description

PRODUCT NAME: X.25 Network-Level Developer's Toolkit™ for DOS, Version R1.10   **SPD 38.96.00**

DESCRIPTION

The X.25 Network-Level Developer's Toolkit for DOS 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 DOS (described in Software Product Description (SPD) 38.93.xx) or the OSI LAN Gateway™ for DOS (described in SPD 38.76.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 NUI (Network User Identification), reverse charging, Call User Data, CUGs (Closed User Groups), throughput class negotiation, and window size negotiation.

The X.25 Network-Level Developer's Toolkit also offers support for X.25 M-bit, Q-bit, D-bit, 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 M-bit, Q-bit, and D-bit

- 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

- Closed User Group (CUG) selection

- CUG with outgoing Access selection

- Bilateral CUG selection

- Reverse charging

- Fast select

- Network User Identification (NUI)

Table 1

Toolkit Functions

x25accept( ) Generate a CALL ACCEPTED packet from the application	**x25listen( )** Accept an incoming call
x25alloc( ) Allocate buffer space to send and receive data using the *x25send( )* and *x25recv( )*	**x25mkconn( )** Dynamically obtain a connection identifier for an already existing connection
x25call( ) Set up a virtual circuit to a specified DTE, allowing limited use of parameters	**x25packetstats( )** Return packet-level statistics for a specified connection

Table 1 (Cont.)
Toolkit Functions

x25cancel( ) Cancel a pending request

x25cause( ) Return an appropriate X.25 networks library clearing cause number

x25causemsg( ) Return an appropriate X.25 library clearing cause message

x25delconn( ) Delete a connection identifier without completing a hangup

x25diag( ) Return an appropriate X.25 library diagnostic number

x25diagmsg( ) Return an appropriate X.25 library diagnostic message

x25done( ) Get request status

x25error( ) Return an appropriate X.25 library error number

x25errormsg( ) Return an appropriate X.25 library error message

x25exit( ) Clear all connections used by the application program

x25flowctl( ) Enable/Disable flow control for incoming data at the networks level

x25free( ) Free buffer space allocated by the *x25alloc( )* function

x25getconn( ) Get the logical session number and port number of a connection

x25hangup( ) Terminate a call and any associated pending request

x25hangupconfirm( ) Generate the CLEAR CONFIRMATION packet

x25init( ) Initialize the X.25 library functions

x25linkstats( ) Return link-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

x25pvccall( ) Set up a virtual circuit to a specified DTE via a PVC

x25recv( ) Receive data from a remote DTE

x25reset( ) Reset a virtual circuit

x25resetconfirm( ) Acknowledge a reset indication

x25send( ) Send data to a remote DTE

x25sendconfirm( ) Acknowledge a packet received with the D-bit

x25sendexp( ) Send expedited data (interrupt data) to the remote DTE

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

x25xhangup( ) Terminate a connection using the extended packet format

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

80286-, 80386-, and 80486-based Digital personal computers

SOFTWARE REQUIREMENTS

• MS–DOS® Version 3.3 or higher

• OSI PC Gateway for DOS Version V2R2 (see SPD 38.93.xx)

   or

   OSI LAN Gateway for DOS Version V2R2 (see SPD 38.76.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 floppy disks): QB-MJYAA-WW

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