

WAN Links for Windows NT X.25

Version 1.0.1

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This document describes the installation, configuration and features of the WAN Links X.25 package.

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1 Introduction

WAN Links X.25 brings internetworking support over X.25 to Microsoft Windows NT. Remote Access (RAS) calls can now be supported directly and transparently over WAN Links X.25 connections as easily as calls over standard serial connections.

WAN Links supports up to 256 virtual circuits (i.e. RAS connections) per adapter and multiple adapters per system. The maximum number of RAS connections and adapters is limited by your system's resources. For example, Windows NT 3.51 supports only 255 dial-in RAS ports; and adding dial-out RAS ports may reduce that number.

2 Installation

Installing WAN Links X.25 is a two step process. First you'll need to prepare the adapter, and then install the software.

Prepare the adapter

Prepare the SyncPort adapter by selecting the I/O Port Address and electrical interfaces for the adapter.

Note: if you are using a SyncPort PCI adapter, these resources are set in software, so skip to ***Setup the WAN Links X.25 Software***.

- *Set the I/O port address.* The default I/O address is 328h. You will only need to change this only if it conflicts with another adapter installed in your PC. See ***Set the I/O Address*** below for details on how to do this.
- *Set the Electrical interfaces.* Each line on the SyncPort may be configured for any of three electrical interfaces: V.11, V.24, V.35 or V.36. Set the interface to match the equipment to which the SyncPort will be connected. See ***Set the Electrical Interface*** below.
- *Install the adapter in an available slot in your PC.*

Set the I/O Address

A bank of four DIP switches (SW1) is used to set the I/O port address. These switches are visible through the mounting bracket.

Seven I/O address settings are available. These settings (shown in hex) and the corresponding DIP switch setting are shown in the following table. 328 is the default.

<u>I/O Address</u>	<u>Switch 1</u>	<u>Switch 2</u>	<u>Switch 3</u>	<u>Switch 4</u>
108	Off	Off	On	On
118	Off	On	Off	On
128	Off	On	On	On
208	On	Off	Off	On
228	On	Off	On	On
308	On	On	Off	On
328	On	On	On	On

Set the Electrical Interface

Jumpers are used to set the physical interfaces for the SyncPort ISA adapters. Both ports can individually be set for any of the three electrical interfaces: V.11, V.24 or V.35. Note: V.11 is equivalent to RS-422 and X.21; V.24 is equivalent to RS-232 and V.28.

<u>Jumper</u>	<u>Line</u>	<u>V11</u>	<u>V24</u>	<u>V35/V36</u>
J1	2	1-2	2-3	1-2
J2	2	1-2	2-3	2-3
J3	RSVD	1-2	1-2	1-2
J4	1	1-2	2-3	2-3
J5	1	1-2	2-3	1-2
J6	2	1-2	2-3	2-3
J7	1	1-2	2-3	2-3
J8	2	1-2	2-3	1-2
J9	1	1-2	2-3	1-2
J10	2	1-2	2-3	2-3
J11	1	1-2	2-3	2-3
J12	2	1-2	2-3	2-3
J13	1	1-2	2-3	2-3
J14	1	1-2	2-3	1-2
J15	2	1-2	2-3	1-2
J16	1	1-2	2-3	1-2

J17	2	1-2	2-3	1-2
J18	2	1-2	2-3	2-3
J19	1	1-2	2-3	2-3

Setup the WAN Links X.25 Software

Setup X.25 for your PC by installing and configuring the WAN Links X.25 software.

- *Install WAN Links X.25.* WAN Links software is installed via Control Panel | Network | Add Adapter. See ***Install WAN Links X.25*** below.
- *Configure WAN Links X.25.* The SyncPort software is configured via Control Panel | Network | Configure Adapter. See ***Configure WAN Links X.25*** below.
- *Install Remote Access (RAS) X.25 ports.* This is done via Microsoft RAS Setup and will be initiated automatically when SyncPort configuration has been completed.

Install WAN Links X.25

- Run Control Panel | Network.
- Choose the Add Adapter button.
- Select "<Other> Requires disk from manufacturer" from the list of adapters.
- A list of drivers will appear. From the list, select "Digi SyncPort X.25 Adapter". Files will be copied onto your system and the WAN Links configuration program will start.

Configure WAN Links X.25

To configure WAN Links, use the left pane of the configuration program (the Contents pane) to navigate through various property pages displayed on the right (the Properties pane). Pay special attention to property pages for the following Contents pane entries:

- *Adapter - Properties.* For PCI adapters, these parameters are automatically set by the system, skip this page. For ISA adapters, set the Memory address, I/O address and IRQ parameters. The I/O address must match the I/O address you set previously with the DIP switches on the adapter. The SyncPort adapter can operate without an IRQ (by setting the IRQ value to None) however, optimum performance will be obtained by selecting an IRQ (other than None).
- *Line - Properties.* Set the *Electrical Interface*. For ISA adapters, the electrical interface must match the jumper settings on the adapter. Set the line speed and select internal or external clocking.
- *Line - Quick Start.* Set the X.25 Local Address and choose the range of two-way channels. If you need one-way channels (incoming or outgoing), those can be set from the *X.25 - Channels* page.
- *X.25 - General.* Verify the X.25 Version; the default is 1988.
- *X.25 - Packet.* Verify the Default and Maximum Packet and Window sizes.

3 If You Have Problems...

1. Note exact wording of error messages you receive.
2. Try to reproduce the problem, if possible.
3. Contact Digi Technical Support via:
 Phone: 612-912-3456
 FAX: 612-912-4958
 BBS: 612-912-4800
 Email: support@dgii.com

4 Removing the WAN Links Software

1. Start Control Panel and choose Network
2. Select the adapter from the *Installed Adapter Cards* list.
3. Choose Remove.

5 Release History

Version 1.00

June 28, 1996 - Initial release.

Version 1.01

July 15, 1996 - Fixed problem with PCI SyncPort running in a multi-processor system which could cause the system to bugcheck. Eliminated error accessing SpyGlass help with F1 key. Config now correctly stays displayed on top of control panel. Fixed compatibility problem with tabbing between fields in config on Windows NT 4.0.