

Key Features

- Competitively priced synchronous WAN PC Card
- Network interfaces for RS232C, X.21, V.35 and RS-530
- Line speeds up to 512 Kbits/s
- 'Plug and Play' drivers for Windows 2000 and XP
- Supports connections to BRENT units
- Built in Line Monitor



Overview

The FarSync WAN M1P adapter provides the solution for your X.21, V.35, RS530 and RS232C synchronous connectivity requirements in a PCMCIA Card format. Whether you are connecting to the Internet, a satellite link, a private network using TCP/IP or connecting sites using Leased Lines, this FarSync adapter provides the connectivity solution.

The adapter installs seamlessly as a plug and play device under Windows 2000 and XP on both single and multiprocessor systems. The interface to the adapter is presented as an NDIS (LAN) driver with TCP/IP running over PPP with optional authentication by CHAP or PAP (RFC 1334). FarSync WAN drivers have been validated by Microsoft as 'Designed for Windows XP'.

The product is supplied with its own multi-channel Line Monitor utility.

The FarSync WAN M1P card supports PC connections to secure BRENT units using an X.21 connection.

Related Products

For developers who need an API to access the HDLC or Bitstream support on the card directly, the FarSync OEM M1P should be used instead. The FarSync OEM range includes a Developers Toolkit that supports application development using the card's API. See FarSync OEM M1P datasheet for further details.

Typical Applications

The synchronous FarSync WAN M1P adapter is suitable for connection to TCP/IP networks. Typical applications include:

- Internet access from laptops
- Remote office access over leased lines
- Laptop access to synchronous based services
- X.21 connections to BRENT units
- WAN access to rack systems using PCMCIA for external device attachment
- Satellite Multicasting
- Portable data access to Satellite networks

Fast Installation and Configuration

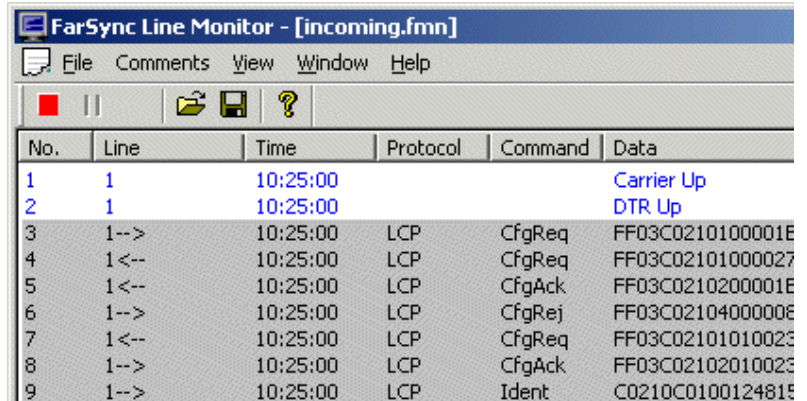
Easy installation and fast configuration are features of the product, on-line help and documentation is provided. The M1P adapter is 'plug-and-play' compatible, supporting Windows XP and 2000.

The NDIS (LAN) interface allows the line to appear like a LAN port allowing very simple and quick installation. The FarSync WAN drivers have been tested and validated by Microsoft as 'designed for Windows XP'.

Line Monitor and Network Statistics Utilities

The FarSync product is supplied with a high performance multi-channel line monitor that allows the user to record, display and store line traffic with full protocol decoding.

Comments can even be inserted into the line trace to assist later analysis.



The screenshot shows the 'FarSync Line Monitor - [incoming.fmn]' window. It has a menu bar with 'File', 'Comments', 'View', 'Window', and 'Help'. Below the menu is a toolbar with icons for a red square, a play button, a folder, a save icon, and a help icon. The main area is a table with columns: 'No.', 'Line', 'Time', 'Protocol', 'Command', and 'Data'. The table contains the following data:

No.	Line	Time	Protocol	Command	Data
1	1	10:25:00			Carrier Up
2	1	10:25:00			DTR Up
3	1->	10:25:00	LCP	CfgReq	FF03C0210100001E
4	1<--	10:25:00	LCP	CfgReq	FF03C02101000027
5	1<--	10:25:00	LCP	CfgAck	FF03C0210200001E
6	1->	10:25:00	LCP	CfgRej	FF03C0210400000E
7	1<--	10:25:00	LCP	CfgReq	FF03C02101010023
8	1->	10:25:00	LCP	CfgAck	FF03C02102010023
9	1->	10:25:00	LCP	Ident	C0210C0100124819

Packaging

The product includes the complete set of **software drivers, line monitor software, documentation supplied on CD-ROM, a quick start guide, and the communications adapter.** Cables are purchased separately.

New versions of the software are available for free download from www.farsite.co.uk as they are released.

Cables

There are a number of different cable and connector configurations available. Crossover cables, sometimes referred to as null modem cables are also available, see the Cable Types table below for further details.

Cable Types		
Name	Cable types available for the FarSync WAN M1P	Product Code
PCR1	Single RS232C (V.24, X.21bis) cable with male 25 pin D type connector, 1.5 metres	FS6081
PCX1	Single X.21 (V.11, RS422) cable with male 15 pin D type connector, 1.5 metres	FS6082
PCV1	Single V.35 cable with standard MRAC-34 (brick) male connector, 1.5 metres	FS6083
P530	Single RS530 (EIA-530) cables, 25 pin male D type connector, 1.5 metres	FS6084
Crossover (Null Modem) cables - Suitable for FarSync WAN M1P adapter		
Null-MX	X.21 (V.11, RS422) double shielded crossover cable, 15 pin D type female connectors, 0.5 metres	FS6090
Null-MR3	RS232C (V.24) double shielded crossover cable, 25 pin D type female connectors, 0.5 metres	FS6092

General Specifications	
Product name	FarSync WAN M1P
Product code	FS8131
Warranty	5 years
Port count	1 port
Hardware Specifications	
Card type and Specification	PCMCIA type II PC Card FCI rocard cable connector
Network connectors	X.21 (V.11, RS422) - 15 pin male D type, V.35 - MRAC-34 male 'brick' type, RS232C (V.24, X.21bis) - 25 pin male D type, RS530 (EIA530) - 25 pin male D type
Link speed range	RS232C: up to 128 Kbits/s X21, V35, RS530: up to 512 Kbits/s
Special connections	The adapter can be used to interface to BRENT units for secure connections.
ESD Line Protection	Yes, Littelfuse high speed ESD and over-voltage protection
Approvals	EN55022 class B, CE
Power requirements	< 150 mA @ +5v < 0.75 watts
MTBF	468,787 hours. Bellcore Method 1 Case 3, 40 deg.C ambient, 15 deg.C case temperature rise above ambient
Line clocking (internal / external)	Both. Internal clock range selectable for X.21 and RS232C modes, range 9,600 baud to 512 KBits/s. No special cables are required to use internal clocks
Software Specifications	
Standard Interfaces	NDIS (LAN), each line appears as a LAN port
Protocols	TCP/IP, over PPP, with CHAP or PAP authentication (RFCs 1661, 1332, 1334)
Plug and Play	Yes
Applications - tested & supported	Microsoft's Netmeeting FarSite's FarSync TCP-X25 GP Gateway, FarSync TCP-X25 POS Gateway and FarSync TCP-X25 SMS Router
Utilities	Multi channel line monitor to record, display and store line traffic included
Multiple Cards	Yes, 2 or more per PC, only limited by PC resources
On-line manual	Installation and configuration instructions included
Operating Systems Supported	Windows 2000, Windows XP

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