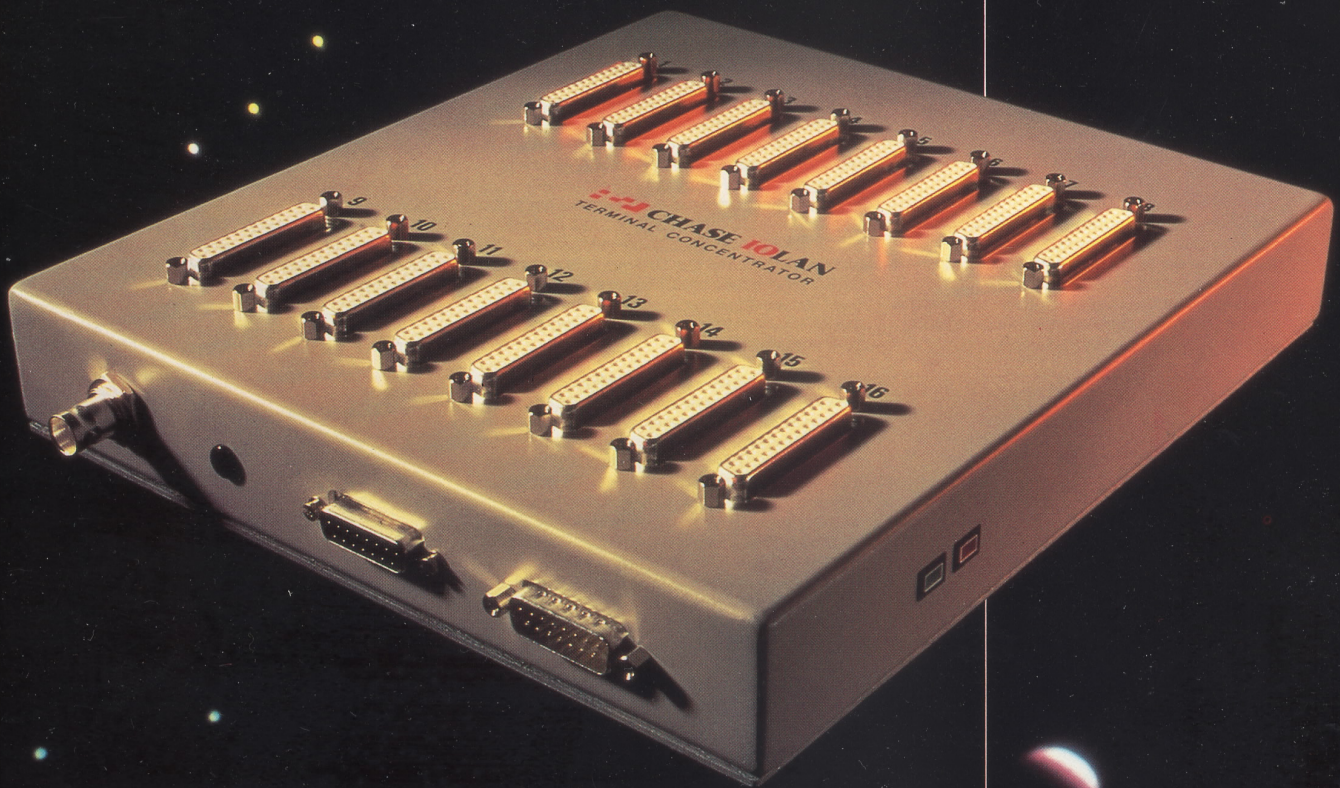# CHASE IOLAN
TERMINAL CONCENTRATOR

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Introduction

The Chase IOLAN is a terminal concentrator subsystem featuring 16 RS232C asynchronous serial ports, enabling terminals, printers and modems to communicate over an Ethernet backbone with other nodes or one or more host computer system on the network. Transforming stand-alone computers running UNIX/XENIX into versatile multi-user hosts, Chase IOLAN is the ultimate tool for distributing valuable data and applications to individual users or departmental work groups throughout the network. Total flexibility is also assured, as Chase IOLAN can operate with any computer system (PC, workstation or minicomputer) and only requires that the host(s) are running Ethernet-TCP/IP, with an appropriate Ethernet card in each system.

The Standards Solution

The Chase IOLAN is a fully standards-based connectivity solution built around the Ethernet IEEE 802.3 networking standard and TCP/IP network protocols. Chase IOLAN provides support for both telnet and rlogin virtual terminal protocols for remote login, thus providing maximum user flexibility in operation and overcoming the compatibility problems often associated with less sophisticated systems. Chase IOLAN can be implemented on either thick or thin Ethernet cabling, so it can provide a highly cost-effective and versatile solution for new sites and upgrading existing installations.

Easy to Install and Use

The Chase IOLAN has been designed to be very easy to install, configure and use from any terminal on the subsystem. With a footprint of only 9.5 inches x 8.5 inches, the Chase IOLAN requires the minimum of space for installation and can be sited in any convenient location (including wall mounted), providing host access and

processing power just where it is needed most. Chase IOLAN features a user-friendly MMI (Man Machine Interface) supporting both menu driven and command line formats. Both of these options are available at set-up in one of five international languages, with options for English, French, German, Italian and Spanish each providing easy-to-follow on-screen prompts, with all options displayed and easily accessible to the user. The configuration and set-up routines take the user through a logical sequence of menus to set-up individual user options and specify IOLAN/host connections. Additional facilities are provided within the administration menus (which are password protected for authorised access only) for global set-up of all lines, ports and connections. The system administrator is able to perform these tasks locally, or remotely from any node or host on the network.

Best by Design

Chase IOLAN has been designed and built from the 'ground up' and is based upon the knowledge and experience gained by Chase engineers over the years from production of the leading Chase range of I/O controllers. Chase IOLAN incorporates the latest silicon technology and is feature-packed for full functionality and ease of use.

Chase IOLAN incorporates a powerful 16-bit 80C186 processor running at 16MHz which manages all on-board processing tasks and provides fast user response, even at peak usage. Powered by a fully regulated and protected external power supply, all cable connections to the Chase IOLAN are conveniently located on the low-profile front panel, which houses the power connector, thick and thin Ethernet connectors and thick/thin selector switch (factory pre-set to thin). Two LEDs are also incorporated into the system chassis, which indicate power connected and Ethernet status.

Chase IOLAN is fully software configurable, which means that there are no awkward switches or jumpers to set on the boards. Internally, the subsystem contains two highly sophisticated circuit boards. The main processor board features a CMOS low-power, high-performance 80C186 processor, 1Mb of RAM, 2Kb of non-volatile memory (which maintains user information such as network statistics and set-up data), 256Kb of EPROM and the proven AMD LANCE Ethernet driver chip set. The interface board contains the DB25 serial connectors and the RS232C line drivers/receivers, driven by the improved efficiency 85C30 serial I/O chips which manage the data handling between Chase IOLAN and the attached devices. These are fully interrupt driven to maximise throughput.

The Chase IOLAN is very competitively priced and is supplied ready-to-run, unlike many other terminal concentrators on the market today, which require expensive 'add-ons' or additional modules in order to provide full functionality.

IOLAN
Inexpensive to implement and easy to install and maintain. Supports both thick and thin Ethernet cabling. Low cost per node connection.

IOLAN
Unlimited host expansion, with up to 4 open sessions per port. Each port fully configurable. Password protection for command menus.

IOLAN
Provides automatic printer sharing, even with computers that have only serial line access. Comprehensive terminal support for menu driven interface.

IOLAN
Full Ethernet TCP/IP support. Up to 16 serial lines per IOLAN subsystem. Supports both telnet and rlogin for maximum flexibility.

IOLAN
Features simple menu driven interface with user selectable language versions between English, French, Italian, Spanish and German.

TECHNICAL SPECIFICATION
CHASE IOLAN

Channels	16
Processor	80C186
Processor speed	16MHz
On-board DRAM	1Mb
Non-volatile RAM	2Kb
On-board EPROM	256Kb
DUARTs	8 x 85C30
Speed range (baud)	110-38,400
Serial interface	DTR, SG, DSR, RTS,
RS232	DCD, TD, RD, CTS
Interface circuitry	AMD LANCE chip set
Thick Ethernet connector	15-Pin, D-type
Thick/thin select	Switch selectable
Thin Ethernet connector	BNC 'T'
Protocols	TCP/IP (telnet/rlogin)
Compatibility	Ethernet IEEE 802.3
Power supply	External
Power connector	DIN connector
Terminal support for connection	Any RS232 ASCII device
Terminal support for menu interface	ansi, vt100, Wyse 50, Wyse 60, tvi925
IOLAN external dimensions	9.5 x 8.5 x 1.5 inches

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Chase Research is an international company, specialising in the design, manufacture and marketing of a wide range of connectivity products. The Chase range includes I/O boards for the AT, MCA and EISA bus architectures and the Chase IOLAN, an Ethernet-TCP/IP based terminal concentrator for extended terminal access across an Ethernet backbone. Chase Research products are sold and installed world-wide and are used

extensively by end-users and OEMs alike. Chase also specialises in customising standard products to meet the precise requirements of computer manufacturers, where Chase products are sold alongside systems from some of the world's leading computer vendors.

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