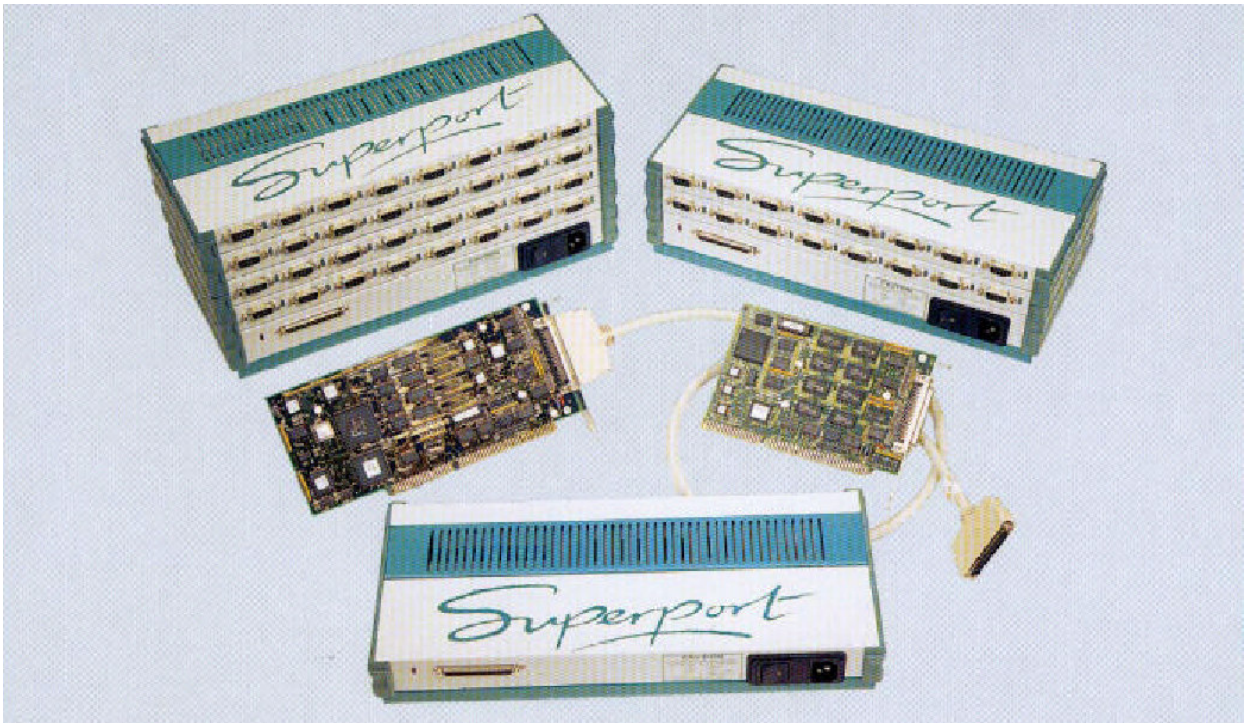
TCL Superport



Superport is the most versatile, reliable and powerful expandable intelligent multiport communication system for PC's running any of the major multiuser, Multiuser/Multitasking or Networked operating systems.

The outstanding performance coupled with ease of installation and field upgrade ability, packaged in a robust but neat aluminium casing, makes Superport the ultimate logical connectivity solution for system integrators.

Superport is manufactured using surface-mount up-to-date CMOS components on multi-layer boards to achieve maximum reliability and trouble free life.

The Superport system comprises three parts. An intelligent PC controller card, an external base unit which houses the power supply for all the ports and a cable for connecting the controller card to the base unit. The base unit has been designed to accept multiple snap-on layers.

Each layer will provide eight RS232 or a mixture of RS232 and RS422/485 ports. The maximum number of ports supported by the base unit is 64, and the maximum number of ports supported on one PC is 256 through the use of four Superport systems.
Superport layers are designed to use the Cirrus Logic RISC buffered UART to achieve data rates in excess of 115.2Kbps simultaneously on all ports. To guard against accidental damage all signals on the Superport ports are surge protected. Each port also has an activity LED.

The Superport intelligent controller card has been designed in two versions mainly to satisfy TCL's OEM customer requirements. The RISC version of the controller card uses the IDT 20 MIPS RISC processor and the 186 version utilises the 20MHz 80C186 processor. Both controller cards have on board private memory for buffering data.

Superport controller cards use theTCL 8KB defacto standard dual-ported 'sliding window' memory mapped technology. This technique allows for the fastest possible data exchange between the PC and the Superport, minimising conflict with other cards.

Superport is incorporated into the operating system by means of a device driver. The function of the device driver is to make the internal workings of the Superport transparent to the operating system and present the operating systems with a block of memory for the exchange of communication data.

TCL provide drivers for most current operating systems, ensuring that your investment in TCL hardware is safe.

Features

Expandability:
Start with eight ports and increase the number of ports as the need arises by adding additional layers.

Field upgradeability:
Layers can be added to the stack or removed within minutes.

Robust Aluminium Casing

Anti-Surge protection on all signals on all ports

Activity LEDs on all ports

Manufactured using the latest CMOS surface-mount components on a multi-layer board

Multiple Superports could be fitted in the same PC

PAL ID facility (acts as a dongle for protecting your software)

Benefits

12-month Return-to-Base warranty

High speed, reliable data transmission and reception

Enhances operating system and application in use by providing users with fast reliable response

Places absolute minimum of overhead on the PC's main processor as no PC interrupts or DMA are used by TCL drivers

Proven memory-mapped Front-End Processor technology as used in mainframes

Surge protected signals on all ports - little possibility of damage by attached peripherals

FREE device drivers for the operating system of your choice:

DOS, WINDOWS, WINDOWS NT (NT-RAS), OS/2, Multiuser DOS, Real/32, Novell NetWare (AIO), NetWare CONNECT, IBM LAN Distance (ANDIS), UnixWare, SCO UNIX, AIX, Solaris-x86, FlexOS.

Loopback plug and diagnostic software supplied as standard

OEM software kit available on request

SUPERPORT Specification

RISC Version:

Processor:	IDT 3051 20MIPS
RAM:	128KB on-board memory. (640KB option)
Bus:	ISA/EISA

186 Version:

Processor:	80C186 20MHz
RAM:	512KB on-board memory (1MB option)
Bus:	ISA/EISA, MCA
Interface:	Dual ported 8KB (4+4) memory mapped. Base address of memory switch selectable between 640KB and 1MB.
Connection:	V.24/RS232 9 pin 'D' male (Option RJ45)
Throughput:	50bps-115.2Kbps

SURGE PROTECTED

Modem Control

Signals:	TX, RX, RTS, CTS, DTR, DSR, DCD, RI
UARTS:	Cirrus Logic CD1400 (Buffered)
Data Bits:	5,6,7,8 bits
Parity:	1, 1.5, 2
Stop Bits:	Odd, Even or None
Dimensions:	Base: 330x150x52m Layer: 330x150x28mm

'Snap-in' Expansion Layer Options

Eight RS232 Serial Ports
Eight RS422/485 Serial Ports
Four V.34 Data/Fax Modems

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