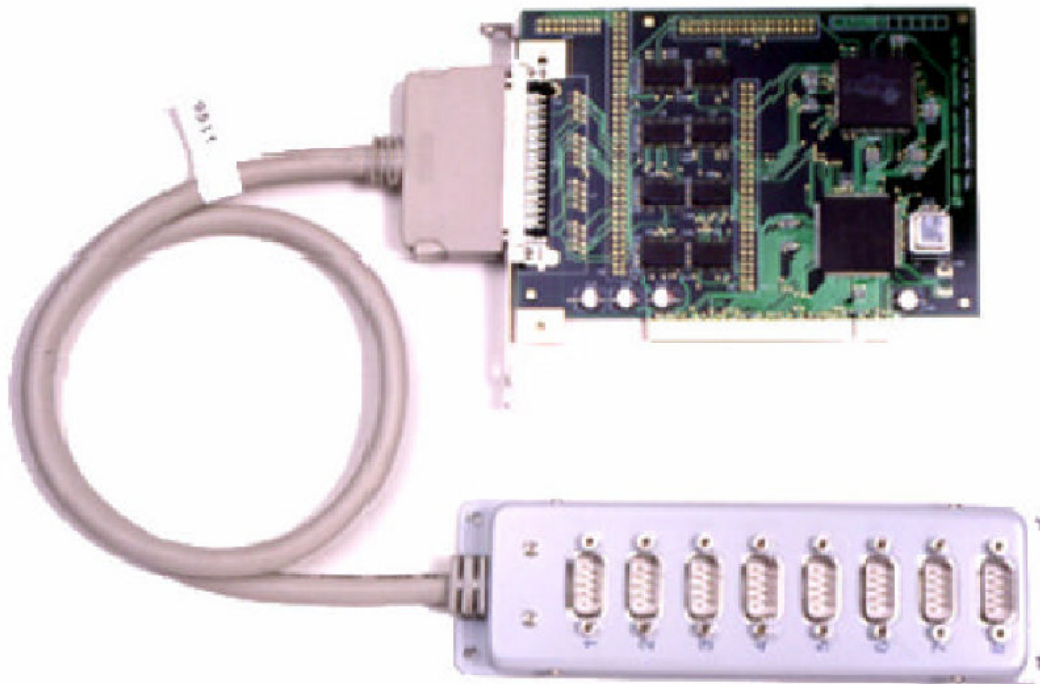


# TCL Data Boosters

High Speed Buffered PCI Communication Controllers



DataBoosters are part of the new "ZAPATEADO" range of highly integrated, user friendly and exceptionally reliable, Plug-and-Play PCI communication adapters. DataBoosters are designed to fulfil the ever-increasing demands of current and future peripherals for readily available streams of high-speed asynchronous data.

DataBooster is an apt name for this family of Plug-and-Play PCI buffered 4 and 8 port communication adapters. It is apt because the communication engine used on the card can handle full duplex asynchronous data transmission and reception at up to 10Mbps simultaneously through all ports. Such speeds are achieved by incorporating 128 Byte deep Transmit and Receive FIFO buffers per channel. To keep the DataBooster in line with today's needs, the maximum port speed has been limited to 912.5Kbps on the standard product.

DataBooster communication UARTS are compatible with older standard 16C450, 16C550, 16C650, 16C750 and 16C950 UARTS, allowing easy porting of bespoke software, written to use an ISA adapter, to this high-speed, state-of-the-art, PCI adapter.

DataBoosters are recommended for use where additional ports are required on a PC, for data logging, connection of high-speed peripherals and inclusion of terminals or remote clients in thin client multi-user environments.

They are also ideal for handling Point-of-Sale terminals or providing extra communication channels in a PC acting as a communication gateway.

Although the processing power of PCs is said to be doubling every year, so does the demand of applications running on those PCs. DataBoosters are ideal for reducing a PC processor's communication overheads due to their 128 Byte per channel buffering mechanism. More buffering translates to less processor interrupts and hence more power to run applications.

DataBoosters are versatile and their versatility stems firstly from their Plug-and-Play capabilities and secondly through the choice of cabling options. Plug-and-Play capabilities allow the base address of the ports and the PC interrupt level to be configured by the PC Bios automatically without the intervention of the installer.

The 4 port DataBooster is available with 4 x RJ45 ports on the end plate or an external fan cable terminated at one end with a SCSI connector and at the other end with 4 x D-9 or optionally 4 x D-25 connectors. The 8 port DataBooster version has an external terminator box with 8 x D-9 or optionally 8x D-25 connectors; it is also available in RJ45, presented as 2x4 RJ45 on two end brackets.

DataBooster is supplied with WINDOWS 95/98 and WINDOWS NT drivers as standard.

## Features

Complies with PCI Bus Specification 2.2 and power management 1.0

User friendly Plug-and-Play, no need for any intervention by the installer

128 Byte FIFO on all ports

Asynchronous Data speed up to 912.5Kbps full duplex on all 4 or 8 ports simultaneously

Choice of interface option, RJ45, D-9 or D-25 connectors

Full surge protected modem support on all ports

Optimized for Windows NT and 95/98

Factory option of RS422/485 ports

Multi-layer half length card with surface mount CMOS components

Reliable and maintenance free

Supplied ready to use with free drivers, diagnostic software and loop-back plug.

## Benefits

12-month return-to-base warranty

Generate little extra heat and uses minimum power

High speed data communication at an economical price

Free device drivers

Web site available for up to date information and new releases of software

## General Hardware Specification

|  |   |
|--|---|
| Adapter Card:  | CMOS surface mount components on a multi-layer half-length card   |
| UARTS:   | 16C450, 16C550, 16C650, 16C750 and 16C950 compatible  |
| BUS:   | PCI complying with specification 2.2 and power management 1.0   |
| Data framing:  | 5, 6, 7 8 and 9 bits  |
| Stop Bits:   | 1, 1.5 and 2  |
| Parity:  | Odd, Even or None   |
| Data Rate:   | 50bps - 921.6 Kbps Lower or higher data rates are possible with different crystals (Factory fitted option)  |
| Surge protected Control Signals                                  | TX, RX, RTS, CTS, DTR, DSR and DCD  |
| Connection:  | V.24 /RS232 with factory option of RS422/485 DataBooster 4 (RS232) 4 x RJ45 on the back plate 4 way fan cable terminated with D-9 male DataBooster 8 (RS232) 8 x RJ45, 4 on the back plate 4 on extra back plate Termination Box with 8 x D-9 male D-25 option is available on DataBooster 4 and 8 ports RS422/RS485 models are supplied with D-25 Female |
| Approval:  | CE and FCC class A  |
| Card Dimension:  | Length=150mm, Height = 105mm  |
| Card weight net:   | 90gms   |
| Model Numbers:   | DataBooster 4 port with RJ45 Model 2000<br>DataBooster 4 port with fan cable Model 2010<br>DataBooster 4 port (RS422/485) with fan cable Model 2010-4<br><br>DataBooster 8 port with RJ45 Model 2020<br>DataBooster 8 port with connecting block Model 2030<br>DataBooster 8 port (RS422/485) with D-25 block Model 2030-4                                |
| DataBoosters are supplied ready to use with an appropriate cable |   |



IT Factor Ltd t/a TCL  
24 Thatcham House  
Turners Drive, Thatcham  
Berkshire, RG19 4QD  
Tel: + 44 (0) 1635 876754  
Fax: + 44 (0) 1635 871739