

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Abaco Systems / SBS / SciTech TCom4* at our website: ***Click HERE***

The TCOM4 Product

Four Channel PMC Module For Telecommunications

- Uses Brooktree Bt8370 T1/E1 transceivers to support up to four E1/T1 interfaces with short/long haul physical line interfaces
  - Frames to T1 standards SF, ESF, SLCR99, T1DM
  - Frames to E1 standards PCM-30, G.704, G.706, G.732, ISDN primary rate
- Comprehensive facility data link (FDL) support
- Brooktree Bt8474 MUSYCC supports up to 128 HDLC channels
  - OSI layer 2 support
  - General purpose HDLC (ITU-T Q.921) for X.25 frame relay, ISDN D-channel, SS7 and DXI
- Direct PCI bus interface
  - 32-bit, 33 MHz operation
  - Bus master and slave operation
  - PCI Version 2.1
- Optional MC68360 QUICC controller
  - FDL support
  - Aditional RS-232 and RS-422 I/O support
- Front panel and rear panel I/O options
- Off-card protection circuit simplifies compliance testing
- Limited on-card protection circuit
- VxWorks real-time operating sustem support
  - Driver-level initialization and configuration capability

The TCOM4 module is a four channel sychronous communications module that interfaces with E1/T1 and ISDN primary rate interfaces operating at 1.544 Mb/s or 2.048 Mb/s. The Bt8370 transceiver provides a physical line which provides support for alarm and error monitoring, signaling supervision, trunk conditioning and facility data link (FDL) maintenance. The physical line interface for each transceiver supports both long and short haul E1/T1 applications at 75, 100 and 120 ohm line impedance.

The TCOM4 uses the Bt8474 MUSYCC PCI controller which can format and deformat up to 128 HDLC channels on a single width PCI mezzanine card (PMC). The module implements layer 2 of the Open Systems Interconnection (OSI) protocol reference model providing support for applications such as frame relay, ISDN D channel signaling, XLT, signaling system 7 (SS7), DXI/HSSI, and LAN/WAN data transport.

An optional MC68360 QUICC can support FDL or provide additional 232/422 I/O support. The QUICC provides 2 serial management controllers (SMC) suitable for console or monitor ports. The QUICC also provides 4 serial communications controllers (SCC) suitable for servicing the E1 or T1 data link interface or general purpose I/O.

Board-level driver support for the Wind River Systems' VxWorks real-time operating system is available. Low-level hardware initialization and configuration functions are supported by driver module.

Product Options Available

The TCOM4 module has two options. The part number is constructed using these two options:

TCOM4- (Q or N) (F or B)

The first option is the availabilty of the module with the MC68360 QUICC controller or with NO controller. The QUICC provides 4 serial ports which can be connected to the E1/T1 transceivers facility data link or routed out the I/O connector. The QUICC provides two additional serial management controllers which can be used as RS232 terminal, download, or network ports. The QUICC is also capable of operating autonomously using its own flash boot ROM and dynamic RAM.

The second is the availability of I/O out the FRONT PANEL or BACK PANEL. For front panel the I/O is provided on a 68 position connector and cable which break the four ports into individual 25 position connectors. The back panel option allows I/O to be routed to either a custom backplane or a 64 position P2 connector.

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP