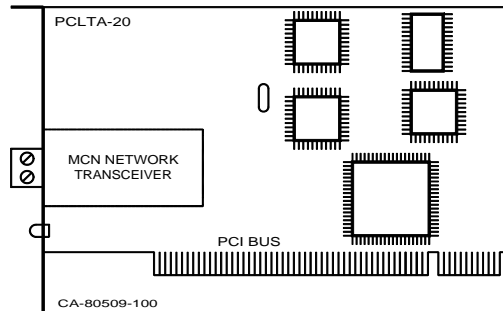




PCLTA Network Interface Card for MCN™ Monitoring and Control Systems



Introduction

The PCLTA module works with CTI's MCN Remote Comparator Display for Windows software to turn a PC into a Remote Comparator Display position. The PCLTA is a plug-in network interface board for the PC's PCI bus, and connects the PC to the Monitoring and Control Network (MCN™) System.

PCLTA Modules are available in speeds of 78Kb (standard MCN System) or 1.25 Mb (larger custom engineered systems):

Remote Comparator Display Systems

The MCN Remote Comparator Display System extends the comparator lights and switches over the MCN network to remote PCs.

The MCN Remote Comparator Display features real-time receiver status monitoring. The Force-Vote and Disable are controlled from the PC. The receiver names and screen positions are user-configurable.

Receiver errors can be logged to the screen or the disk to provide an audit trail of bad or intermittent receivers.

Operating Systems

The PCLTA modules and MCNRCD for Windows software support Windows 2000 or XP operating systems.

Dispatch Consoles

The system will operate on the same PC along with other programs, such as Radio Dispatch Console and 911 Software.

Multiple Display Positions

CTI's MCN Control System is a modular system, which uses distributed processors to monitor and control points remotely. Multiple PCs can be connected to a MCN network. Full parallel status and control on all PCs is supported.

Operation at Remote Locations

Network Extender (EXB) Modules are available to connect PCs with PCLTA cards to a remote MCN network. Multiple PCs can share the same set of network extenders. EXB modules are available for analog leased lines, asynchronous channels, or TCP/IP networks.

System Options

The following are some of the MCN system options available to work with the PCLTA module:

- Network cables and terminators
- CIB and AIB Comparator Interface Modules
- IIB Console I/O Interface Module
- TIB TSAM Interface Modules
- IOB Input/Output Control Modules
- Router/Repeaters, System Extenders

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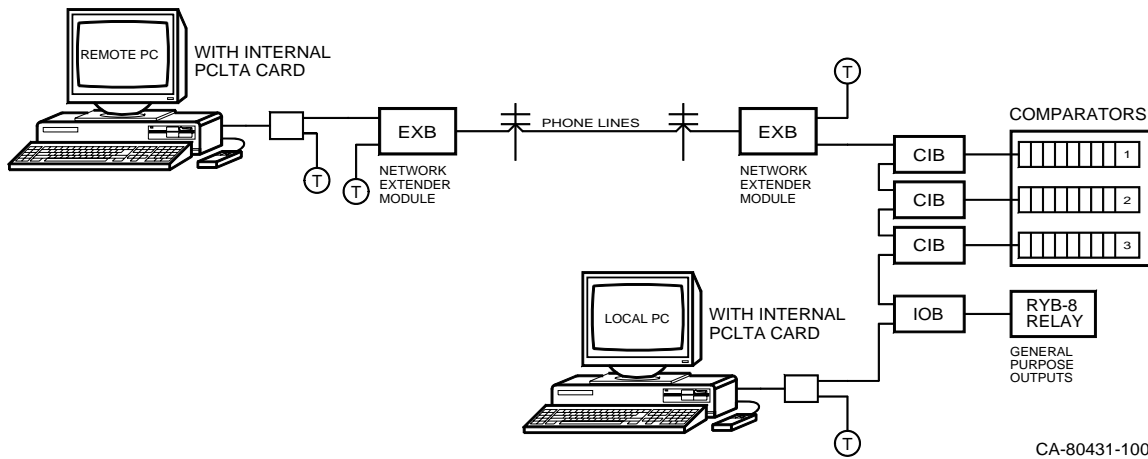
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Typical MCN Remote Comparator Display System

System Operation

The system diagram on the next page shows PCs connected to the network via PCLTA Modules. The local PC connects directly to the network. The remote PC connects via a pair of EXB Network Extender Modules.

The CIB Comparator Interface Modules mount near the comparator, and control and monitor up to 8 receivers each. They pass the Vote, Receive, Disable, and Fail indications from the voting comparator to the MCN network. The receiver data is passed over the network to the PCs.

The Force Vote and Disable control commands are sent from the PC through the MCN network to the CIB modules.

The CIB modules accept Force Vote and Disable commands from the network and generate the Force Vote and Disable outputs to the comparator.

Dial-Up Applications

Since the PCLTA card has a direct network connection, it does not support dial-up control of a remote system. Dial-up monitoring and control can be done with the MCN Remote Comparator Display software, a HIB module, and a modem. HIB modules and PCLTA modules can be mixed in one system.

Alternate Network Interfaces

CTI Products has other MCN network interfaces for various applications:

- **HIB-232** Network interface for local connection using RS-232, or remote connection using dial-up or leased-line analog phone lines.
- **HIB-IP** Remote Network Interface module that connects over an IP network.

Part Numbers

Part Number	Description
S1-61075	MCN RCD Windows Software with 78Kb PCLTA Module PCI Internal Card for PC
S1-61076	MCN RCD Windows Software with 1.25Mb PCLTA Module PCI Internal Card for PC

General Specifications

PC Interface	32 Bit PCI
Size (HxL)	3.87" x 5.20" (9.8 x 13.2 cm)
PC Bracket	Full and short Height
Configuration	Software, PNP
Power Requirement	5V @250 mA, typical
Temperature	0-70 °C
Humidity	25 - 90% @ 50 °C non-condensing
MCN Network Data Rates	78K or 1.25Mb (1250K), depending upon model
Network Connector	Screw terminal block (2 conductor)
Max. network segment length	4000 ft. (1200 m) (78Kb) 1500 ft. (450 m) (1.25Mb)
Max PCLTA modules per network segment	64 (Larger, multi-segment systems can be configured.)
PC Operating System Support	Windows 2000 or XP
Network Cabling	Category 5 UTP
Safety Approvals	UL 1950, CSA 1950, EN60950-1992 (CE)
Emissions Compliance:	FCC part 15, Class A, (complies with Class B) EN55022, Class B
Software Media	CD-ROM