Model 2717 Ethernet Card

Integrates controller resources with the enterprise

Control Technology Corporation

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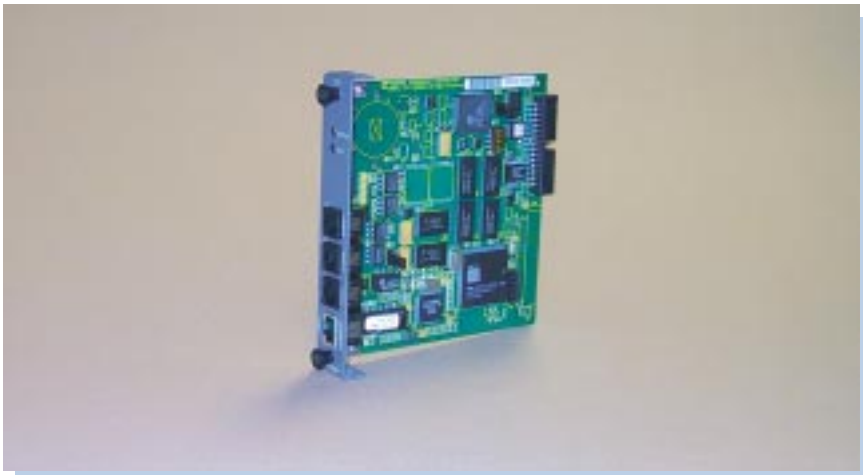

- **Patented Internet/Intranet access to plant floor data**
- **Supports TCP/IP, UDP and ModBus protocols**
- **Enables desktop monitoring and control from standard browsers**
- **On-board flash file system accessible via FTP protocol**

Web-enabled integration and control across the enterprise

Using patented unique Internet/Intranet technology, the Model 2717 Ethernet card is your controller's window into the enterprise, with the power to integrate your controller's resources with everything from robots to CRM — all from the convenience of your desktop browser. In addition to the TCP/IP commonly used for Internet access, the 2717 supports a wide variety of other protocols, including UDP and ModBus, for easy and flexible integration with other systems on the network. Controllers can use data from other devices, such as machine vision systems, to make real-time decisions on process execution for maximum operational efficiency.

Remote communications to the desktop

The 2717 Ethernet card supports a DLL that uses TCP/IP and UDP to communicate directly with the CTC controller over secure connections. This enables authorized users to remotely transfer new control strategies to the controller over the Internet, streamlining activities such as system upgrades/enhancements, customization, or diagnostics from remote locations. Using CTCmon, CTC's data communications software module, users can even monitor and control processes remotely via a standard desktop browser.

On-board program and documentation storage

The 2717 Ethernet card has an on-board flash file system for program and documentation storage. Files can be transferred to and from the controller via the FTP protocol, which provides secure but flexible remote access. Customers can create a "master" program that can be customized to fit the needs of individual stations throughout a plant, while OEMs can use this same strategy to customize and upgrade controllers at customer sites throughout the world.

Other Specifications

Supported Protocols:
CTNET
TCP/IP
UDP
ModBus/IP Server
ModBus/IP Client
Peer to Peer

FTP (File Transfer Protocol) and Telnet also supported.

Supported Web Standards:
HTTP (Hypertext Transfer Protocol)
XML (Extensible Markup Language)
SOAP (Simple Object Access Protocol)
RMI (Remote Method Invocation)

Refer to the Model 2717 Installation Guide for additional notes on these specifications. All specifications listed are at 25°C unless otherwise specified.

More Information

To receive further detailed information about Control Techology products, contact our Systems Specialists at:

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Model 2717 Ethernet Card Specifications

General Specifications

Description	Min.	Typical	Max.	Units
Absolute Maximum Ratings				
Ambient Temperature				
Operating	0		+50	C
Storage	-20		+80	C
Operating Characteristics[1]				
RS-232 Transmitters	9		12	VDC
RS-232 Receivers	3		12	VDC
Common Mode Voltage Range	-10		+10	VDC
RS-485 Common Mode Rejection	-7		+12	VDC
RS-485 Hysteresis		70		mVDC
Ethernet Transceivers (10/100 Megabits/sec)[2]			1.5	VAC PP
Power Supply Requirements (from controller)				
Logic Supply (5 V)		370.0	410.0	mA
Auxiliary Supply (24 V)		0	0	mA
Flash Memory				
Storage Space			32	MB

Performance Specifications

Description	CTNET	UDP	TCP/IP	ModBus	Units
Host Communications					
Single-Register Transaction from 2717	1-2	2-4	3.5-4	6-8	msec
Single-Register Transaction from 2703AP[3]	3-5	5-8	7-10	10-12	msec
16-Register Read from 2700[3]	6-7	9-11	10-12	12-14	msec
50-Register Read from 2700[3]	8-9	10-12	11-13	16-17	msec

Notes:
1. The combined impedance is less than one RS-485 load.
2. This conforms to IEEE Standard 802.3.
3. This value is derived with high communications priority active or when one task is running.