RS-232/RS-422/RS-485 to 10Base-T Ethernet Converters

Model TC3400 Series

- Converts RS-232, 422, or 485 to 10Base-T Ethernet (IEEE 802.3)

- Point to Point (TC3400)

- Point to Multi-Point (TC3420)

- Data Rates up to 57.6 Kbps

- Changeable Network Settings

- Supports Full RS-232 Handshaking

- Nine Diagnostic LEDs

- Local/Remote Loopback & Test Signal Generator (TC3420)

- High Temp (-20°C to 70°C) Optional

TC3420 "Ethernet Converter Multi-Poll"

TC3400S Standalone/Wallmount Unit (rear view)

The TC3400 Series converts RS-232, RS-422 or RS-485 (4-wire) asynchronous data to packets for transmission between local and remote TC3400s over an Ethernet Network.

The Model TC3400 is for point to point network applications, and the Model TC3420 is for point to multi-point (Poll/Response). Both models are transparent to data or communications protocols and the TC3420 can be configured in bus, ring, or redundant ring topologies.

Compatible with all popular Ethernet Switches, the TC3400 series supports data rates up to 57.6 Kbps. A Web-based user interface (i.e. browser) is provided to view or change network settings.

The TC3400 series supports full RS-232 handshaking (DCD, RTS, CTS, DTR and DSR). Nine LEDs are provided on the front panel for all five control signals and Sync, Activity, Power and Link.

Power is 12VDC, optional 24VDC, -48VDC, 125VDC or 115/230VAC with an external power cube. Electrical connectors are DB-9F and terminal blocks, and the 10Base-T connector is RJ-45F.

The TC3420 supports Local & Remote Loopback and provides a test signal generator for link verification. The TC3400 supports Local Loopback. Both have Alarm Relays.
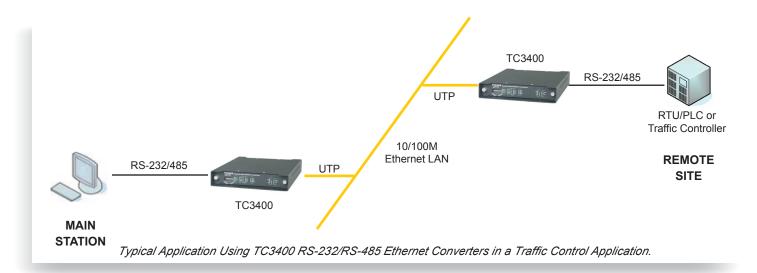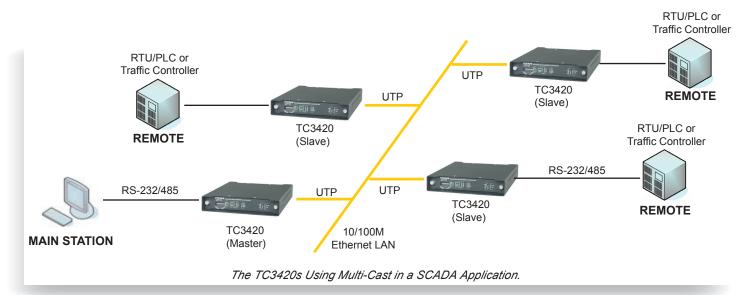
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Applications

The TC3400 Series is ideal for poll response networks often used in Utility, SCADA, Traffic Control and Process Control LANs to link RS-232 or RS-485 RTUs and PLCs to a Host CPU. It is also ideal for connecting surveillance cameras with RS-232 interfaces over Ethernet.

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Typical Application Using TC3400 RS-232/RS-485 Ethernet Converters in a Traffic Control Application.

The TC3420s Using Multi-Cast in a SCADA Application.

Electrical

RS232.............................DB9 Female
Rate ....Up to 57.6Kbps
RS485/RS422 ....Terminal Blocks
Rate ....Up to 57.6Kbps
Ethernet (10Base-T).......RJ45 Female
Rate 10Mbps

Visual Indicators

System Status ....PWR A, PWR B,
......................................Vcc, ALARM
Diagnostic Status............DHCP, DFLT,
...............LOCLB, SERIAL, TELNET,
..............................MASTER, SLAVE
Serial Signal Status.................TX, RX,
..............RTS, CTS, DTR, DSR, DCD

Diagnostic Functions

TC3400.......................Local Loopback
TC3420.........Local/Remote Loopback
TC3420 ....Signal Generator

Alarm/Ring

Dry Contact...................Normal OPEN

Power

Standard ....12VDC @500mA
Optional ....24, -48,125 VDC or
...........115/230VAC with power cube

Temperature

Operating.................... -10°C to 50°C
Hi-Temp (Option)......... -20°C to 70°C
Storage .... -40°C to 90°C
Humidity ....95% non-condensing

Physical (Standalone Unit)

Height........................(3.53 cm) 1.39"
Width........................(18.13 cm) 7.14"
Depth........................(16.59 cm) 6.53"
Weight..................(558.6 gm) 1.23 lbs

TC COMMUNICATIONS®
FIBER OPTIC CONNECTIVITY

Certified System ™

ISO 9001
QMI-SAI Global
#1045959

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