

# Networks & communication

## ConneXium™ ETG

### Ethernet Gateway

*Simple, cost effective* serial line to Ethernet® connectivity



From a single building to a multi-site enterprise, the TSXETG100 provides cost effective, reliable serial line to Ethernet connectivity (Modbus TCP to Modbus RTU/ASCII) in the most demanding applications:

- Factory automation
- Energy and infrastructures
- Building automation

The gateway supports full bidirectional programming and data exchange. It also enables serial devices to connect to other serial devices in remote locations by using two gateways and going through an Ethernet backbone. It's easy to use thanks to its intuitive Web-based configuration tool, and it adds additional security to installations by preventing access to specified IPs.





Web pages viewed in Internet Explorer provide secure access to TSXETG100 setup functions. Windows-style user and group accounts let the Administrator assign access to setup pages by user group.

## Technical Specifications

Physical Characteristics	
Dimensions	90.7mm x 72mm x 65.8mm
Mounting	Din rail
Communications	
Ethernet	10/100BaseT <sub>x</sub> RJ45 Connector
Serial	RS485 4 wire, RS485 2 wire, RS232
Protocols	ModbusTCP/IP, Modbus RTU/ASCII, Jbus, SNMP (MIB2), HTTP, FTP, TCP,UDP, ARP, ICMP
Framing	Ethernet II & 802.3 (SNAP)
Baud rates	2400-38400bps (RS485); 2400-57600bps (RS232)
Control Power	
Input Voltage	24Vdc, 4w or PoE (IEEE 802.3af), class 3
Environmental	
Operating Temp.	0 to 60°C
Enclosure IP Rating	IP30
Regulatory/Standards Compliance	
Agency	UL, cUL, CE

## Ordering Information

<b>Gateway</b>	TSXETG100
<b>PoE Injector</b>	TCSEAV0100
Includes:	<ul style="list-style-type: none"> <li>PoE midspan injector</li> <li>Universal power cord, 2m</li> <li>Plug adapters for Australia, Europe, UK, USA</li> <li>CAT 5 Ethernet patch cable, 2m</li> <li>Instruction sheet</li> </ul>
<b>Configuration Kit</b>	TCSEAK0100
Includes:	<ul style="list-style-type: none"> <li>RJ45 to DB9F adapter</li> <li>CAT5 Crossover cable, 3m</li> <li>Instruction sheet</li> </ul>

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## Features and Benefits

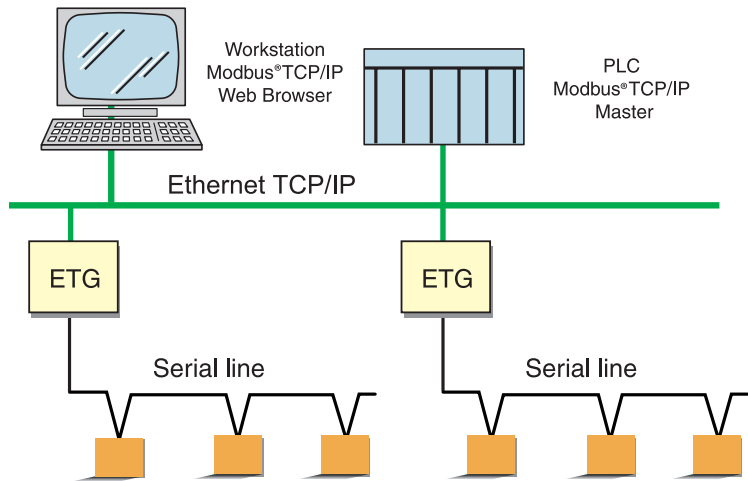
**Easy to install** — Power over Ethernet (PoE IEEE 802.3af) eliminates the need for CPTs, disconnects, and AC-DC power supplies, while greatly reducing installation time. Simply install the TSXETG100 in your equipment and wire the serial daisy chain. Connect the CAT5 Ethernet cable to an “endspan” (PoE enabled switch) or “midspan” (PoE injector) to power the gateway.

**Easy to setup** — Configure the gateway using standard Microsoft tools (Internet Explorer or Hyperterminal); no special software required.

**Easy to troubleshoot** — The gateway provides detailed diagnostics for Ethernet and serial communication ports through a web interface.

**Easy to maintain** — Field upgradable firmware lets you add new features while reducing costly downtime.

**Secure** — Windows-style user and group security provides customizable, password-protected access to configuration. Modbus TCP/IP filtering lets you specify whether each master device shall have “read-only” or “full access” to connected serial slave devices.



**Remote device diagnostic** — A web page on the gateway allows monitoring of memory areas on the serial devices for quick maintenance or verification of communications health.

**Cost-effective, high-speed communications** — Use existing LAN infrastructure to reduce communications wiring and network management costs. Fast Ethernet communications provides high-speed access to critical information.

**Open platform provides broad connectivity** — Modbus TCP/IP over Ethernet allows transparent access via intranet/internet. The gateway supports up to 32 default Modbus TCP/IP connections and up to 32 Modbus serial device connections.

Owing to changes in standards and equipment, the characteristics given in the text and images in this document are not binding until they have been confirmed with us.