

## 8 and 16 Port ModbusTCP Terminal Server, Model SC10EXXAM Series

### HIGHLIGHTS



- 8/16-port ModbusTCP Terminal Server with RISC 32bits 266MHz CPU
- Standard 19-inch Rack-mount, 1U metal housing
- Each port can be independently configured
- Software selectable RS232/422/485 for each port or Isolated RS232 OR RS485/422 ports
- Dual 10/100Mbps Ethernet for networking redundancy
- Support TCP Server/Client UDP, Virtual Com multi-link mode and Modbus RTU, ModbusTCP
- Configuration via Serial Console, Telnet, Web Server or Windows-based utilities
- Relay out indicator for Network link-status
- LCM indication with 4 key pad setting

The Multi-port Industrial Serial Server SC10E16AM series is a gateway between Modbus ASCII/RTU to ModbusTCP Communications. It allows almost any Modbus RTU device to a LAN network. By encapsulating serial data and transporting it over Ethernet, SC10E16AM offers full-duplex, bi-directional data transmission between Serial port and Ethernet network.

Flexible configuration options enable this unit to be setup by Telnet, Web browser, Serial Console, or other Windows utilities. Packed in a rugged metal housing with 19-inch Rack mount and AC / DC power input, SC10E16AM is ideal for almost any industrial and manufacturing automation.

With its powerful computing power and Linux platform, it could be a high performance controller for time-critical, high-security, multi-function controller such as SCADA, tele communication, transportation, banking, hospital, etc.

### TECHNICAL SPECIFICATIONS

#### System

CPU	: 32-bit 266MHz RISC Processor with MMU
Flash	: 2+ 8MB (2MB for Boot loader)
RAM	: 32 Mbytes DDR
EEPROM	: 8K Bytes
Watchdog	: Hardware built-in

#### Ethernet

Compliance	: IEEE802.3
Ports	: 2-port
Transmission Rate	: 10/100Mbps Auto-detection
Connector	: RJ45
Auto MDI/MDI-X	: No
Isolation	: 1.5KV Magnetic Isolation
MAC chips	: 2 Separate MAC chips
Mode	: Redundancy mode & Dual Sub net mode

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### Dual Subnet Mode

Subnet is a logically visible subdivision of an IP network. The LAN 1 and LAN2 can be assigned to different subnets. This feature gives the user flexible network manageability. Separate IP's. Different Class

### Redundancy Mode

A goal of redundant topologies is to eliminate network downtime caused by a single point of failure. The LAN1 and LAN2 can be assigned to the same IP network. It will enable the network to recover rapidly from failure and fault.

### Link Mode

TCP Server : Up to 4 connections or Virtual Com mode  
TCP Client : Up to 2 destinations  
UDP : Up to 8 destinations

### Serial

Interface : RS232/422/485 software selectable  
Ports : 8 / 16-port  
Baud Rate : 110bps~921Kbps  
Parity : None, Odd, Even, Mark, Space  
Data Bits : 5, 6, 7, 8  
Stop Bits : 1, 2  
Flow Control : None, Software: Xon/Xoff, Hardware: RTS/CTS  
Connector : RJ45  
Isolation : 2.5 KV : In RS232 Only & RS485/422 only models.

### Protection

ESD : +/- 8 KV, +/- 15 KV  
EFT/Burst : Power line : AC : 4 KV, DC : 2 KV, Data lines : 2 KV  
Surge Protection : Signal Port : 2KV ( L to E ), Power Line DC 1 KV ( L to L & L to E ), Power Line AC : 4 KV L/N to E & 2 KV L to N

### Software

Configuration : Web Page / Telnet / Serial console / Windows utility / LCM  
Virtual Com : Windows & Linux port redirection software  
Support Protocol : ARP, ICMP, TCP/IP, UDP, DHCP client, NTP, DNS, SNMP, SMTP, HTTP, Telnet, Modbus ASCII/RTU, Modbus TCP  
Driver Support : Windows 2008, 2007, 98/200/NT/XP/2003/Vista, Windows server 2012 R2 & Windows Serer 2016 OS driver Support

### Power

Input : AC 100 ~ 260V, 24V DC & 48V DC options are also available  
Consumption : Max. 8.5W  
Reverse Polarity Protection : Yes. For DC Version

**Console Port** : RS232, DB9 : 1 no's  
**Alerts** : SMTP, SNMP, Relay  
**Diagnostics** : Link Status, Syslog, Data Log

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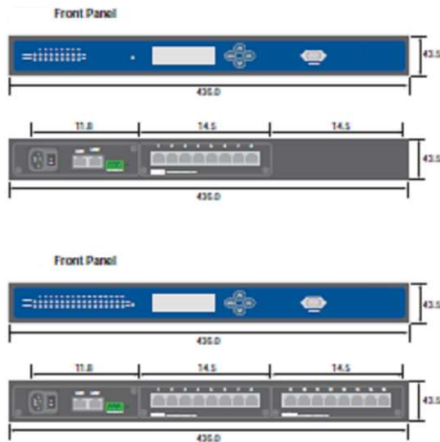
## LCD with Keypad Reset Button

### Environment

Operating Temp : 0°C to 60°C  
Storage Temp : -40° to 85°C  
Relative Humidity : 5 to 95% rh non condensing  
Heat Load : 34.12 BTU/hr

### Dimension / Weight

W x H x D : 436mm x 43.5mm x 200mm  
Weight : 3.2 Kg



## ORDERING CODE : SC10EXXAM BB C YY

### SC10E: Product Series

XX : 08 for 8 Port, 16 for 16 Port  
A : Fixed  
M : Modbus Serial & ModbusTCP Function  
BB : NI for Non Isolated. I for Isolated  
C : U for RS232/485/RS422 (Only in NI-Non Isolated Model)  
: V for RS485/422 (Only in I-Isolated Model)  
: S for RS232 ( Only in I-Isolated Model)  
YY : AC for 230V AC Input & DC for 24 or 48 for DC Inputs

### e.g

SC10E08AM NI U AC: 2 LAN, 8-port software selectable RS232/422/485 (RJ45)  
Terminal server, 230V AC operated supporting Modbus Conversion  
SC10E16AM I V DC : 2 LAN 16-port Isolated RS422/485 (RJ45) Terminal Server, 48V DC  
operated supporting Modbus Conversion

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**REGULATORY APPROVALS**

**EMI : EN 55022 / 55024:2010, FCC Part 15B, Class A**

**EMC :**

TEST	DESCRIPTION	VALUE	LEVEL	CLASS	
IEC 61000-4-2	ESD	Contact / Air	8/15KV	4	B
IEC 61000-4-3	RS		10 V/m	3	A
IEC 61000-4-4	EFT	Signal Port	2	4	B
		DC Port	2	3	B
		AC Port	4	4	B
IEC 61000-4-5	Surge	Signal Port	2 KV Line to Earth	3	B
		Signal Port	2 KV Line to Earth	3	B
		DC Port	1 KV Line to Earth. 1 KV Line to Line	2	A
		AC Port	4 KV Line to Earth. 2 KV Line to Line	4	A
IEC 61000-4-6	CS	Signal Port	10V	3	A
		DC Port			
		AC Port			
IEC 61000-4-8	PFFMF	Ports	10 A/m	3	A
IEC 61000-4-11	Dips/Interruption	AC Port	Dips > 95%, 30% Redn		A
			Interruptions > 95%		B
Safety	EN 60950-1				
Shock	IEC 60068-2-27				
Freefall	IEC 60068-2-32				
Vibration	IEC 60068-2-64				

