

16 Port Modbus Terminal Server and Data Concentrator, Model SC10E16AM DC

HIGHLIGHTS



- 8/16-port Ethernet Serial server with RISC 32bits 266MHz CPU
- Standard 19-inch rack-mount 1U metal housing
- Each port can be independently configured
- Software selectable RS-232/422/485 for each port
- Dual 10/100Mbps Ethernet for networking redundancy
- Support TCP Server/Client UDP and Virtual Com multi-link mode
- 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 SC10E16 is a gateway between Ethernet (TCP/IP) and RS232/422/485 communications. It allows almost any serial device to a LAN network.

By encapsulating serial data and transporting it over Ethernet, SC10E16 offers full-duplex, bi-directional data transmission transparent 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 100~240VAC wide power input range, SC10E16 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.

Modbus Concentrator concept is to act as a gateway to collect data from Modbus slaves (IEDs : IED is Intelligent Electronic Device) independently to main memory (or database), and to response the requests from Modbus Master directly from the memory to increase the performance. This memory mapping can save the time querying the Modbus registers via serial line interface, that will be slow, to get better response time.

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
Port	2-port
Transmission Rate	10/100Mbps Auto-detection
Connector	RJ45
Auto MDI/MDI-X	No
Isolation	1.5KV Magnetic Isolation

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	RS-232/422/485 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

San Telequip (P) Ltd.,
 504 505 Deron Heights,
 Baner Road, Pune 411 045, India
 Phone : +91-20-27293455, 9764027070, 8390069393
 email : info@santelequip.com



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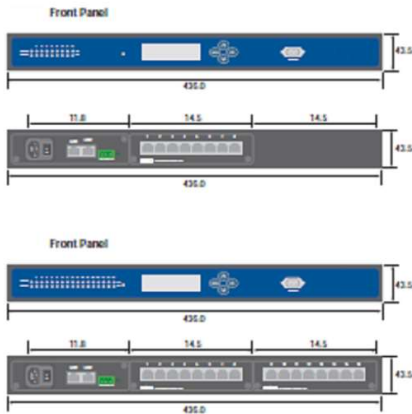
Connector RJ45
 Protection 15KV ESD
 Surge Protection 500V
 Isolation 3KV : Optional
Console Port RS232, DB9 : 1 no's

Power
 Input AC 100 ~ 260V, 24V DC & 48V DC options are also available
 Consumption Max. 8.5W

Environment
 OperatingTemp 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

Software
 Configuration Web Page / Telnet / Serial console / Windows utility / LCM
 Virtual Com Windows & Linux port redirection software
 Support Protocol ARP, ICMP, TCP(UDP) / IP, DHCP client, NTP, DNS, SNMP, SMTP, HTTP, Telnet, Modbus RTU, Modbus TCP
 Driver Support Windows 2008, 2007, 98/200/NT/XP/2003/Vista

Dimension
 W x H x D 436mm x 43.5mm x 200mm



ORDERING CODE : SC10EXXAMDC BB CYY

SC10E : Product Series
XX : 08 for 8 Port, 16 for 16 Port
AM DC : Fixed for Modbus Data Concentrator
BB : NI for Non Isolated. IS for Isolated
C : U for RS232/ 485/RS422 (Only in NI)
 : V for 485/422 (Only in IS)
YY : AC for 230V AC Input & DC for 24 or 48 for DC Inputs

e.g
 SC10E08AMDC NI U AC : 2 LAN, 8-port software selectable RS232/422/485 (RJ45) Modbus Terminal Server and Data Concentrator, 230V AC operated
 SC10E16A IS V DC : 2 LAN 16-port Isolated RS422/485 (RJ45) Modbus Terminal Server and Data Concentrator serial server, 48V DC operated

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email : info@santelequip.com



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APPROVALS : (The hardware is designed for & complies to the below approvals.)

EN 55022:2006 Class A	EN 55024:1998+a1:2001+A2:2003
AS/NZS CISPR 22:2006. Class A	IEC 61000-4-2:2001 ED.1.2
EN 61000-3-2:2006, Class A	IEC 61000-4-3:2006 ED.3.0
EN 61000-3-3:1995+A1:2001+A2:2005	IEC 61000-4-4:2004 ED.2.0
	IEC 61000-4-5:2005 ED.2.0
	IEC 61000-4-6:2006 ED.2.2
	IEC 61000-4-8:2001 ED.1.1
	IEC 61000-4-11:2004 ED.2.0

FCC Part 15: 2007, Subpart B, Class A (section 15.31, 15.107, and 15.109)
ICES-003: 2004, Class A (section 4&5)
ANSI C63.4-2003 (section 7 & 8)