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16 Port Rack Mounted, Secured RS232/485/422 Terminal Server



SC10E16O I is Secure Isolated RS232/RS485/RS422 Terminal Server that can enable Serial devices equip with networking capability instantly and centrally manage Serial devices and hosts via network. This product supports upto 16 Isolated RS232/485/422 Serial ports to 2 of 100M

Ethernet copper ports. It is a 19" Rack mounting design.

Features and Benefits

- ARM 8, 1Ghz very fast CPU, Latest design
- 512MB memory for Configuration & Serial data storage
- Isolated, IP40, Secure and Level 4 ESD/EFT/Surge best in class design
- Support Delimiter matching communication, achieving various demands for Serial port packaging
- Support FIFO, compatible with various old type terminal devices
- Support Serial port status, Parameters and error information monitoring, ensuring communication status be available at a glance
- Compatible with various Virtual Serial Port management software
- Flexible Serial port data framing setting, which can satisfy user's various demands for data packets segmentation
- Support standard TCP/IP SOCKET application access
- Support RFC2217 protocol, which can make Serial port present in the host as local COM port
- Low power consumption and Fan less Hardware

Specification

Ethernet

No of Ports : 2
Standard : 10Base-T, 100Base-TX
Rate : 10/100M, Auto Negotiation, Automatic Flow Control, Auto MDI/MDI-X
Interface : RJ45
Isolation : 1.5KV
Duplex mode : Full/Half Duplex Mode

Dual IP and Dual MAC addresses to meet the requirements of multi-network management or network backups. Support Redundant & Dual Subnet Mode

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

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

Protocol : IPv4, IPv6, TCP, ICMP, ARP, UDP, DHCP, BootP, HTTP, HTTPS, SMTP, SNMP v1, v2, v3, DNS, NTP, TELNET, SSL, SSH, RFC2217
Multihost : Allows maximum 6 users to monitor or manage the Serial device simultaneously

Serial Ports

Serial port : 16 Serial ports, RS232/RS485/RS422
Isolation : 2.5KV DC
Baud rate : 300 to 921kbps
Data bit : 5bit, 6bit, 7bit, 8bit
Parity bit : None, Even, Odd, Space, Mark

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Stop bit : 1bit, 1.5bit, 2bit
Interface : RJ45
Flow control : None, RTS/CTS, DTR/DSR, XON/XOFF
Direction control: RS485 direction adopts Automatic Data Direction Control (ADDC)
Load capacity : RS485/422 supports 32 devices
Distance : RS232, 15m; RS485/422, 1200m
Pull high/low resistor for RS485 : 4.7k Ω
Offline Port Buffering : 128Kb

Serial Signals

RS232 signal : RXD, TXD, DTR, GND, DSR, RTS, CTS, DCD
RS485 signal : D+, D-, GND
RS-422 signal : T+, T-, GND, R+, R-

Display : Optional. OLED type. 2 Lines, 16 Characters per line, 4 Keys

Software

Management : CLI command line management port (RS232), RJ45
IPv4, IPv6, WEB, TELNET, Windows, SSHD configuration and Management tools
Work modes : RealCom, Reverse RealCom, TCP Server, TCP Client, UDP Server, UDP Client,
Pair Master, Pair Slave, UDP Range, UDP Multicast, Telnet, Reverse Telnet,
RFC2217, Redundant COM, DRDAS RealCom and DRDAS TCP Server
Diagnostics : Link Status, Syslog, PING, Traceroutes
Security : IP address filtering, MAC address filtering, HTTP/HTTPS console, TELNET console
for higher Access Control & Security, SSH v2, TLS v1.0, 1.2, SSL v2.0, 3.0, "Secure
Mode" in TCP Client/Server mode. SSH is used to access the device and
Config / Monitor device with CLI command. It is used less in Serial device.

Alarms : Email, Log alarm and System Alarms for Power Supply, Warm Start, Cold Start,
DCD and DSR

Operating System : Windows 2000/XP/2003/Vista/2008/7, Windows 2010/2016,
Linux (kernel 5.0-5.4)

Firmware Upgrade : Online, TFTP Server

Others

Watch Dog Timer
SD Card : For configuration, upload and download.
Indicators : Power supply indicator, Ethernet port indicator, Serial port indicator, Run indicator
Console Port : RJ45, Rear side
Factory Default : Reset DIP Switch
MTBF : > 300,000 hrs
Heat Load : 34.12 BTU/Hr

Protection

ESD : +/- 8 KV, +/- 15 KV
EFT/Burst : Power line : AC : 4 KV, DC : 4 KV, Serial Port : $\pm$ 4kV, Ethernet Port : 2 KV
Surge : Serial & Ethernet Port : 4KV (L to E)
: AC Power : 4KV L/N to E & 2KV L to N. DC Power : 4 KV L/N to E) & 2KV L to N

Power

Power supply : 85 to 265V AC/DC Dual Redundant. AC power supply socket with switch
: 24/48V DC Dual Redundant (to be launched shortly)
No-load : 5.6W @220VAC
Full-load : 13.2W@220VAC

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Environment

Operating temperature : -40 to 75°C
Storage temperature : -40 to 85°C
Relative humidity : 5% to 95% (no condensation)

Mechanical

Ingress Protection : IP40
Housing : Metal
Installation : Rack mounting
Dimension : 440mm×44mm×265.6mm. W x H x D, 19", 1U
Weight : 3.04kg

Approvals tested for

IEC 61000-4-2 ESD : Level 4 : Air discharge: ±15kV, Contact discharge: ±8kV
IEC 61000-4-4 EFT : Level 4 : Power supply: ±4kV, Serial port: ±4kV, Ethernet port: ±2kV
IEC 61000-4-5 Surge : Level 4 :
Power supply : Common mode ±4kV, Differential mode ± 2kV
Ethernet port : Common mode ±4kV, Differential mode ± 2kV
Serial port : Common mode ±4kV, differential mode ± 2kV
Shock : IEC 60068-2-27
Free fall : IEC 60068-2-32
Vibration : IEC 60068-2-6
CE, FCC, RoHS

Ordering Information : SC10E160 S NI/I XXR

SC10E : Standard Code for Terminal Servers
16 : 16 Ports, RS232/RS485/RS422
O : Fixed
S : Secured
NI/I : NI : Non Isolated Serial Ports, I : Isolated Serial Ports
XX : AC for AC/DC Input. DC for DC Input (DC under development)
R : Fixed. Dual Redundant Power Supply

Dimensions

