

16 Port Serial Device Server : SC10E16G



The SC10E016G Serial device server can connect 16 Serial devices to an Ethernet network, It supports RS232/RS485/RS422 Serial standards, It can be widely applied in different fields for such as PLCs, sensors and control console. These Device servers are ultra-lean, ruggedized, and user friendly, making simple and reliable serial to Ethernet solutions possible.

Features/Benefits



- ✓ Web-based configuration
 - ✓ Standard 19-inch Rackmount size
 - ✓ Auto-detecting 10/100/1000 Mbps Ethernet
 - ✓ Built-in 15 KV ESD protection for all serial signals
 - ✓ Support TCP server / TCP client / UDP / Virtual COM Socket modes
- ✓ Wide input voltage range.
 - ✓ Optional Support : 2 of 1000M SFP Fiber port

Specifications

CPU	: 32-bit Up to 400MHz ARM Thumb Processor with MMU
Flash	: 2GB NAND Flash
RAM	: 64M Bytes DDRII Synchronous DRAM
Watchdog	: Hardware built-in

Ethernet Interface

Number of Ports	: 2. 2 Separate MAC chips, Separate IP, Separate Class for the Dual Subnet
Speed	: 10/100/1000 Mbps, auto MDI/MDIX
Modes	: Redundant and Dual Subnet Mode
Connector	: 8-pin RJ45
Magnetic Isolation Protection	: 1.5 KV built-in
TCP Server	: Up to 4 connections
TCP Client	: Up to 4 Destinations
UDP	: Up to 4 destinations

Modes : Redundant / Dual Subnet

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, so that the failures and faults will be bypassed.

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Software

Network Protocols : TCP, IP, UDP, ARP, ICMP, HTTP, DHCP client, NTP, DNS, SNMPV1/V2, SMTP, HTTP, Telnet
Operation Modes : TCP Server, TCP Client, UDP, Virtual Com
Configuration Options : Built-in WEB server, Serial Console, Telnet, LCD Display
Windows Virtual COM Drivers: Windows 2000/XP/2003/Vista/2008/7
Linux Virtual TTY Drivers: Linux kernel 2.6.x

Serial Interface

Number of Ports : 16
Serial Standards : RS232/RS485/RS422
Connector : RJ45

Serial Communication Parameters

Data Bits : 5, 6, 7, 8
Stop Bits : 1, 2
Parity : None, Even, Odd, Space, Mark
Flow Control : RTS/CTS
Baud rate : 300 bps to 115.2 Kbps

Serial Signals

RS232 : TX, RX, RTS, CTS, GND
RS485 : D+/TX+, D-/TX-
RS422 : TX+, TX-, RX+, RX-

Console Port : RS232
LCD : 2 Lines / 15 Characters per line / 4 Keys Keypad
Diagnostic : Serial Statistics

Alarms & Alerts

Alarm Relay : 2 no's. 24V, 2 Amp for Link, Power, Fault. Programmable
Alerts : SNMP, SMTP. Relay for IP Change, LAN1, LAN2 down, Power Supply 1, Power Supply 2 fail

OPTIONAL

Optical Fiber : Number of Ports : 2, 1000M SFP slot

Physical Characteristics

Housing / Weight : Metal / 2.6Kg
Dimensions : 430 x 200 x 44.5 mm

Environmental Limits

Operating Temperature : 0 to 50°C
Storage Temperature : -40 to 85°C
Relative Humidity : 5 to 95% (non-condensing)

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Power Requirements

Input Voltage : Dual Redundant.
 230VAC Range 100 to 240V AC, Frequency 50 Hz for
 AC Input (Range 50 to 60 Hz)
 : 48V DC Range: 36-75V DC
 : AC / DC mix is also possible.
 Power Consumption : <15 watts

Others

Heat Load : 45BTU/Hr
 MTBF : 58400 hrs

Ordering Information : SC10E16G XXR L S

SC10E16G : Base Model
 XXR : AA for both AC, DD for both DC supplies, AD for AC & DC combination.
 : R for Redundant
 L : LCD
 S : S for SM SFP Fiber. MM presently not supported

TESTS CLEARED

Test Condition	Test Method	Test Result
Conducted Emission at AC Mains ,150KHz to 30MHz	EN55022:2010+AC:2011	Pass
Conducted Emission at Data ports for 10Mbps, 100Mbps & 1000Mbps,150KHz to 30MHz	EN 55022:2010+AC:2011	Pass
Radiated Emissions,30MHz to 6GHz, for 230V AC & 48V DC	EN 55022:2010+AC:2011	Pass
Voltage fluctuations on AC supply	EN 61000-3-3:2013	Pass
Harmonic Emissions on AC supply	EN 61000-3-3	Pass
RF field strength susceptibility	EN 61000-4-3:2006	Pass
Conducted susceptibility	EN 61000-4-6:2009	Pass
Dips/Voltage Interruption Variation	EN 61000-4-8:2010	Pass
Electrostatic Discharge SD +/- 8KV, +/- 15KV	EN 61000-4-2	Pass
Electrical Fast Transients / Bursts, Data Lines +/- 2KV	EN 61000-4-4	Pass
Surge Tests, 2KV / 4KV	EN61000-4-5	Pass