



Seamless Industrial

Communication

28 years 10000 Installations 1 million Interface Converters

NETWORKING & SURVEILLANCE SOLUTIONS

Media Converter

Ethernet to Fiber Optic Converters

- Fast Ethernet, Gigabit, PoE & SFP versions
- Auto MDI / MDIX, Store & forward Switching
- Link Fault Pass Through
- Built in 230V AC SMPS / 24 / 48 / 110 / 220V DC operated
- DIN Rail / 2U Rack
- ◆ IP20
- ◆ -10° to 65° C



Fiber Optic to Ethernet Media Converter



Media Converter 230V AC Powered



Media Converter with SFP Port



Multimode to Single Mode Converter



Rack Type Media Converter

Industrial Grade Media & PoE Converters

- Fast, Giga & PoE/PoE+ Converters
- ◆ Auto-Negotiation, Auto MDI / MDIX
- Store and forward Switching, Full and Half Duplex
- Link Fault Pass Through
- Reverse Power Polarity, Overload Current, EFT, ESD protection
- 9 to 48V DC
- DIN Rail
- IP30
- ◆ -40° to 85° C
- CE Approved



Industrial Grade Media Converter



Dual Port Industrial Grade Media Converter



Industrial Grade PoE Media Converter

Industrial Ethernet Switches

- Unmanaged, Managed & PoE Switches
- High & Low density ports
- Combination of 10/100 Base-TX, 100 Base FX, 1000 Base TX/SX/LX ports
- Fixed & SFP Fiber Ports
- DIN Rail & Rack types
- IP40
- DC, AC & Dual Supplies
- ◆ -40° to 85° C



5 Port slim type Industrial Ethernet Switch



8 Port slim type Industrial Ethernet Switch



8 Port Industrial Ethernet Switch



8 Port Industrial Ethernet Switch with 100FX or 1000FX ports



16 Port Industrial Ethernet Switch with 4 Giga SFP's



16 Port Industrial Ethernet Switch with 4 Giga Combo ports



16 Port Industrial Ethernet Switch



28 Port Rack type Industrial Ethernet Switches with upto 24 Copper Ports & upto 24 Fiber ports

PoE Injector / Extender / Surge Protector

PoE Injector

- Supply power to HD network surveillance cameras
- 2x 10/100M RJ45 ports
- IEEE 802.3af/at standard
- AC or DC Power input
- Power input port with lighting protection

PoE Extender

- Ethernet and PoE connections restrict cable distances to 100 meters
- Connect PoE Extender for every extra 100 meters and extend every 100 meters depending on PDs power
- PoE Extender does not require any additional power supply



PoE Injector



PoE Extender

PoE Surge Protector

- Support 100/1000Mbps
- Compliant with IEEE802.3af/at/PoE++ standard
- Differential mode surge voltage (8/20us) 4KV
- Common mode surge voltage(8/20us) 6KV
- 8 lines surge protection
- Response Time: ≤5ns





Cellular Modems

2G / 3G / 4G Modem

- ◆ Low cost solution offering RS232 or RS485 port
- Supports AT command set with TCP / IP protocol stack
- IP20



2G / 3G / 4G GSM / GPRS Modem

Intelligent Modem

- Auto connection without using AT command set
- RS232 / RS485 Port
- Battery backed RTC, Watchdog Timer
- Transparent mode allows remote serial devices to connect to Central SCADA



Intelligent Modem

Cellular Router

Cellular Router with VPN

- Support 1 Serial & 1 Ethernet Port
- ◆ Low-consumption sleep mode
- Auto recovery mechanism, including online detect, auto redial when offline to make router always online
- Enters into communication state automatically when powered ON
- Link disconnection when timeout
- TCP/IP, UDP, ICMP, SMTP, HTTP, POP3, OICQ, TELNET, FTP, SNMP, SSHD, etc
- DHCP Server and Client, Firewall, NAT, DMZ host,
 URL block, QoS, traffic statistics, Real time link speed statistics etc
- ◆ Multiple DDNS
- ◆ VPN client (PPTP, L2TP, OPEN VPN, IPSEC and GRE)
- + IP30

Cellular VPN Router

Cellular Router with VPN, WAN & WiFi

- ◆ 1 Serial, 4 Ethernet, WAN & WiFi ports
- Standard WAN port & PPPoE protocol that can connect to ADSL directly
- Enter into communication state automatically when powered
- ◆ Double link back up between WCDMA & WAN
- ◆ VPN Server & Client (PPTP, L2TP, OPENVPN, IPSEC & GRE) (only for VPN version)
- Support multiple DDNS providers
- Support link disconnection when timeout
- DHCP server and client, Firewall, NAT, DMZ host, URL block, QoS, Traffic statistics, Real time link speed statistics etc
- Full protocol support, TCP/IP, UDP, ICMP, SMTP, HTTP, POP3, OICQ, TELNET, FTP, SNMP, SSHD, etc
- + IP30



Cellular VPN Routers with One SIM, WiFi & 2 Ethernet Ports



Cellular VPN Routers with Dual SIM, WiFi & 4 Ethernet Ports

Video Converters

- Transmit upto 16 channels of broadcast quality Video / PTZ / Audio / Ethernet / Telephone / Dry contact over Optical fiber
- 8 bit video signal digital sampling
- Automatic compatible to PAL, NTSC and SECAM
- RS485 data port for PTZ
- Audio / Ethernet / Phone
- Single mode, Single fiber Optical Port



1 Channel Video Converter



4 Channel Video Converter



Video Converters in Rack

IoT SOLUTIONS

Smart Alert Gateways

- Transfer the status of Alarms via SMS / pre recorded Voice message and Emails
- 10 landline or cellular numbers
- ◆ 4/6/8 DI's, 2/6/8 AI's, upto 6 DO's & Modbus RTU Inputs



4 Digital Input 2 Digital Output



2 Analog, 4 Digital and Modbus Inputs, 6 Digital Outputs



8 Analog, 8 Digital and Modbus Inputs 4 Digital Output



Alerts over Voice calls and Emails from Modbus Input

IoT Gateways

Base & AD Models

- 2G/3G/4G Cellular, Ethernet/Wifi interface gateway
- Support Modbus RTU Master interface
- RS232/RS485 ports
- · Connects by itself to the webserver
- IoT protocols: HTTP, MQTT
- Supports upto 8 Al.8 Dl and 4 DO
- · Battery backed RTC, Watchdog timer





Ethernet / Wi-Fi IoT Gateway



2G IoT Gateway



Cellular IoT Gateway



Cellular IoT gateway with 2AI,4DI, 1D0





Cellular Routers with Multiple Serial Ports and IO's

- Upto 5 of Fast or Giga Ethernet ports
- Upto 6 Serial ports, RS232 or RS485 Port
- 2 DI, 1 DO, 1 Relay
- 802.11n/802.11ac and global 2.5G/3G/HSPA+/LTE options
- Supports Multiple Internet interfaces (Cellular, WAN, WiFi, Dual-SIM)
- ◆ Modbus RTU to Modbus TCP Conversion
- Wide operating temperature range
- · Supports DIN Rail mounting
- ◆ IP30



Cellular VPN Router with 5 LAN and WAN Ports, 1 Serial Ports & lo's



Cellular VPN Router with 2 LAN and WAN Ports and 4 Serial Ports

Cloud based Webserver software for Remote data monitoring

- Monitors Remote IOs and Modbus devices data
- Supports HTTP and MQTT protocols
- · Displays current and history data
- · Displays history trends for selected time period
- · Historical data downloadable in CSV format
- · Accessible from anywhere in the world



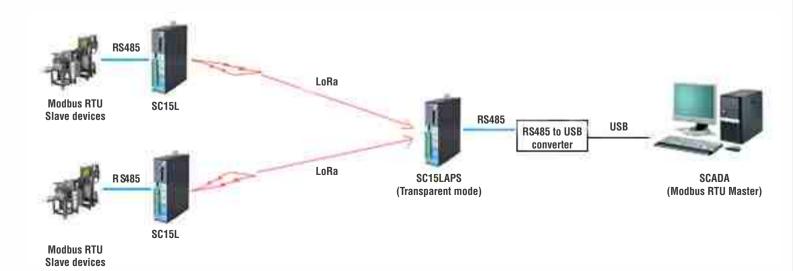


LoRa Gateway Models

- Supports LoRa interface using 433/867 MHZ frequency
- Range : upto 4 km
- Support RS232/RS485 port
- Upto 2AI, 4 DI & 1 DO
- Transparent mode to connect multiple locations to central location wirelessly
- Access point supports Modbus RTU slave interface



LoRa IoT Gateway



INDUSTRIAL GRADE TERMINAL SERVERS

- 4, 8, 16, 32, 48 Serial port Terminal Servers
- Isolated / Non Isolated Serial Ports
- Auto-detecting 10/100 Mbps Ethernet
- 10 / 100 / 1000 TX & 100 FX SFP Options
- 2 Ethernet Ports: Redundant & Dual Subnet mode
- Support TCP server / TCP client / UDP / Virtual COM
- Built-in Web server, Serial Console for Configuration
- Built-in 15KV ESD protection for all serial signals
- Redundant and Wide input voltage range, 48V DC / 230V AC / Mix of both
- IP30
- DIN Rail / Standard 19 inch Rack mount



4 Port Isolated Terminal Server with LCD & Fiber Ports



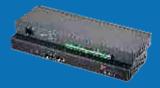
16 Port Isolated / Non Isolated Terminal Server



4 Port Isolated / Non Isolated Terminal Server



32 Port Isolated / Non Isolated Terminal Server



Isolated 8 port Terminal Server



48 Port Terminal Server

PROTOCOL GATEWAYS

Protocol translation between Serial to Serial, Serial to Ethernet & Ethernet to Ethernet Devices

Modbus RTU / TCP, BACnet MSTP / IP, LonWorks, Metasys N2, SNMP, XML, Mbus, IEC 101/104 etc



Modbus RTU to Modbus TCP



Dual Port Modbus RTU to Modbus TCP Converter, AC Powered

Modbus TCP Gateways

- Support 4 Modbus modes, Modbus RTU/ASCII Master / Slave, Modbus TCP Master / Slave
- Support 8 TCP Masters & 32 TCP Slaves simultaneously
- Upto 2 of RS232/RS485/422 ports
- Isolated / Non Isolated
- Modbus TCP over WiFi
- Master / Master or Slave / Slave modes
- Data Concentrator can collect staggered data from Modbus Slaves, store & organise internally,
 & efficiently reply to Modbus TCP



Master-Master, Slave-Slave,
Data Concentrator



Serial to WiFi, Modbus RTU to Modbus TCP over WiFi



Multiport Modbus TCP Gateways

- Convert Modbus RTU to Modbus TCP and support 16 simultaneous TCP master & 32 simultaneous requests for each TCP master
- Isolated and Non Isolated
- 2 Ethernet ports operates as Dual Subnet & Redundancy Mode
- Each RS232/485/422 serial port can be individually configured for Modbus RTU or Modbus ASCII, Master or Slave or even different baud rate
- ◆ CE Approved



Isolated & Non Isolated 4 Port Modbus TCP Gateway



Isolated & Non Isolated 8 / 16 Port Modbus TCP Gateway, Data Concentrator

BMS Gateways



Modbus RTU, Modbus TCP, BACnet MSTP, BACnet IP, N2, SNMP, XML

BACnet Router



2 port BACnet Router

MBus



MBus to Modbus RTU/TCP, BacNet MSTP/IP

Lonworks



BACnet/Modbus/N2 to LON

Ethernet IP



Ethernet IP to Modbus/BACnet

IEC 101/104



IEC 101/104 to Modbus

INTERFACE CONVERTERS

RS232 to RS485 Converters

- Truly 3 way Isolated
- 3KV Opto Isolation, 3 KV Galvanic Isolation, 15 KV ESD protection
- ◆ 4 KV Surge & 4 KV EFT protection
- 230V AC. 24/48/110/220V DC operated
- DIN Rail mounted



Universal AC / DC Powered



RS485 2 wire, 24V DC Powered

Isolator / Repeater

- Truly 3 way Isolated
- 3KV Opto Isolation, 3 KV Galvanic Isolation, 15 KV ESD protection
- ◆ 4 KV Surge & 4 KV EFT protection
- 230V AC. 24 / 48 / 110 / 220V DC operated
- DIN Rail mounted



RS232 Isolator, RS485 / RS422 Isolator / Repeater

Serial to Fiber Convertor

- Need to be used in Pairs
- RS232 / RS485 / RS422 Auto selectable
- Upto 500 kbps
- Multi mode and Single mode
- 15KV ESD and 600W Surge Protection
- Built in 230V AC SMPS. 24 / 48 / 110 / 220V DC operated
- 4KV EFT Protection, 2KV Surge Protection
- DIN Rail / 2U Rack
- IP20
- ◆ -10° to 65° C



Serial to Fiber Converter DC Powered



Serial to Fiber Converter, 230V AC Powered



Serial to Fiber Rack



Fire Alarm Panel

Self Healing Serial to Fiber Converter

- Industrial Grade
- Dual Full Duplex Fiber port forms a Redundant Optical Fiber ring
- No data loss in case of Fiber break
- Redundant Power Input
- Fiber Break and Power Failure Alarm
- IP40
- ◆ -20° to 75°C
- CE Approved



Self Healing Serial to Fiber Converter

RS232 RS485 RS422 RS485 RS422 RS485 RS422 RS485 RS422

Profibus to Fiber Converters / Repeaters

- 1 & 2 fiber ports for Daisy Chaining & Redundant Ring
- Data rate up to 12M, Data latency rate as low as 120 nsec.
- Redundant power 9-30V DC, Relay output alarm
- Profibus HUB / Repeater support 3 independent channels of Profibus DP
- DIN rail mounting
- IP30



Profibus to Fiber



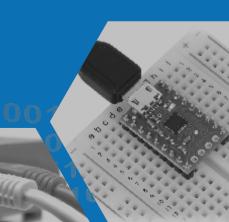
Genius to Fiber



Profibus Redundant Ring Converter



Profibus DP HUB / Repeater



Serial to Ethernet Converters

- 10 / 100M Auto negotiable speed
- 1/2/4 Serial Port Device Server, Supports High Speed CPU
- Support Virtual Com Ports
- Serial Port with 600W Surge, Over current and 15KV ESD protection
- + 230V AC, 24 / 48 / 110 / 220V DC operated



Serial to Ethernet Converter, AC Powered



Dual RS485 Device Server, AC Powered



Four Port Isolated / Non Isolated Device Server

Serial To USB Convertor

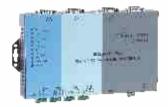
- Supports 1 & 4 Serial Ports, 3KV Isolated versions
- USB 1.0, 1.1, 2.0, Full speed 12 Mbps
- Full signal RS232 & RS485/422
- Surge Protection on RS422 and RS485 lines
- ESD Protection on all lines
- Support Uninterrupted large data transfers



RS232 or RS485 to USB Converter



Isolated RS232/RS485/RS422 to USB Converter



Isolated 4 port RS232/RS485/ RS422 to USB Converter

RS485 Hub

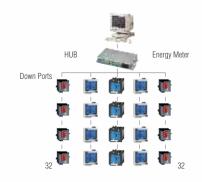
- 4 and 8 Port RS485 Hub
- Connect as many as 256 no's of RS485 devices
- Optically Isolated, Short Circuit, Surge & ESD protected
- Dual power input: 230 V AC / External Adaptor



4 Port RS485 Hub



8 Port RS485/RS422 Hub



Serial Switching Converters

- Protocol Independent
- Connect 2 Masters to 1 Slave or Redundant Slaves to 1 Master
- Combination of RS232 & RS485 / RS422 ports
- AC & DC Supplies







Serial Redundancy Switch

Surge Supressors

- Protect Serial ports from lightening & transients
- ◆ Transient Voltage Suppression : 600W
- DC Spark Over Voltage: 72 to 102V DC
- ◆ Impulse Spark Over Voltage: <450V at 100V / µsec, < 800V at 1 KV / µsec



RS485 / RS422 Surge Supressor



Ethernet Surge Suppressor

Analog to Serial Convertor

- Sensors are used to continuously monitor and control various process parameters
- These measurements help improving processes for adhereing to product specifications & improve product
- Monitoring and controlling temperature, pressure, level, flow etc are common occurances for any process
- 10 Converters convert the Analog & Digital data from Sensors to Modbus to be taken to SCADA for further processing



4 Channel Analog to Modbus



8 Channel Analog to Modbus



Analog / Digital Input & Digital Output to Modbus



PROFILE

Powered by research, designed to perfection, produced and delivered to perform and lead, our solutions in data connectivity fit the needs of a large spectrum of automation applications.

As India's largest manufacturers of Interface Converters, we have a wide reach in IT, Telecom, Security, Industrial Automation and Building Automation.

Over the past three decades, SAN Telequip has moved from being the pioneers of Interface Converters to developing most advanced wireless data communication solutions. The company has evolved keeping pace with its customer needs and offering them the most sophisticated products. Various industries including Building Automation, Security & Surveillance, Telecom, Power, Renewable Energy, Oil & Gas rely on SAN Telequip's products, service and support across India. A wide range of solutions includes Networking & Surveillance Solutions, IIoT Solutions, Industrial Grade Terminal Servers, Protocol Gateways, Interface Converters, Wireless Converters.

Advantages

- Cutting edge technology but competitively priced
- Excellent Post Sales Services
- Tailor-made solutions
- Large installation base across India
- Products and systems for all your data needs



San Teleguip Pvt. Ltd.

Deron Heights, Office No. 504 & 505, 5th Floor, S. No. 270/1/23, Baner Road, Opp. Mahabaleshwar Hotel, Baner, Pune - 411045

Ph.: 020 27293455 / 56 / 8983001587 / 08390069393 / 09764027070

Quick Enquiry: info@santelequip.com For Product Details: www.santelequip.com

Pune - 09370465284 / 09326193359 | Mumbai - 09552555192 Delhi - 08375097945 / 08586919131 | Bengaluru - 09342164634

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