iSITE Switch 4G Router

SIL iSITE Switch

Industrial Cellular Router

OVERVIEW

The SIL iSITE Switch is a cost-effective, industrial mobile router with embedded intelligent features that are designed for multifarious M2M/IoT applications.

Utilising Global WCDMA, 4G LTE carrier support and drop-in connectivity, the iSITE Switch excels for operators looking to maximizing uptime.

With easy deployment and comprehensive remote device management via SilverNet's 'iSITE Hub', the iSITE Switch is extremely versatile in most of IoT/M2M applications.

Combining this with SilverNet's 'iSITE VPN', you can create secure tunnels to your private networks.

Including an integrated cellular modem and dual SIM function, the iSITE Switch provides 3G/4G cellular network with 150Mbps download and 50Mbps uplink.

It also houses 5 fast Ethernet ports and supports Wi-Fi that is compliant with 802.11b/g/n standards. These capabilities combined deliver users uninterrupted internet access.

Features

- NXP Industrial Grade Processor
- Global 4G LTE CAT4/3G Network with Dual SIM Cards for backup between multiple Carrier Networks
- Flexible modular design providing Ethernet, I/O, Serial, Wi-Fi and GPS
- FXS Port for telephone communication
- Rugged enclosure with IP30 protection for harsh environments
- 2 Year Warranty as standard

- Supports 802.11 b/g/n
- Supports SNMP, Modbus Bridging, RIP, OSPF
- Automatic Failover between Ethernet, Cellular and Wi-Fi
- Supports VPN Tunnels IPsec, OpenVPN, GRE, L2TP, PPTP, DMVPN
- Supports AAA (Radius, TACACS+, LDAP)

Distributed By:

SILVERNET
WIRELESS-NETWORK-SOLUTIONS

Technical Specifications

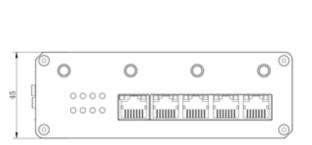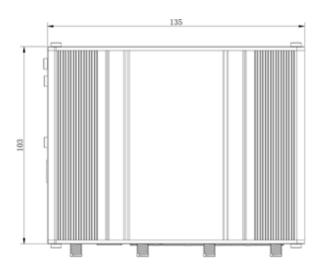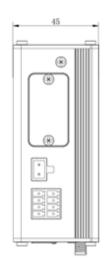| Part No.	SIL iSITE Switch
Hardware	
CPU	ARM Cortex-A7, 528MHz
Memory	128MB DDR3 RAM and 128MB Flash
Extendable Storage	1 x Micro SD
Cellular	
Antenna Connector	2 x 50 Ω SMA Connectors (Centre PIN: SMA Female)
SIM Slots	2 (Mini SIM-2FF)
Ethernet	
Ports	5 x 10/100Mbps
Property	1 x WAN + 4 x LAN
Mode	Full or Half Duplex (Auto-Negotiate)
PoE	4 x 802.3af/at PoE PSE on LAN Ports
Wireless	
Antenna Connector	1 × 50 Ω SMA Connector (Center PIN: RP-SMA Female)
Standards	IEEE 802.11 b/g/n，2.4GHz
Tx Power	802.11b: 16 dBm +/-1.5 dBm (11 Mbps) 802.11g: 14 dBm +/-1.5 dBm (54 Mbps) 802.11n: 13 dBm +/-1.5 dBm (65 Mbps, HT20/40 MCS7)
Modes	AP or Client
Security	WPA/WPA2 Authentication, WEP/TKIP/AES Encryption
GPS	
Antenna Connector	1 × 50 Ω SMA Connector (Centre PIN: SMA Female)
Protocol	NMEA0183, PMTK
Serial	
Port	1 × RS232 + 1 × RS485 (2 × RS485 Optional)
Connector	3.5mm Terminal Block
Baud Rate	300bps to 230400bps
DI/DO	
Port	1 x DI (dry contact) + 1 x DO (wet contact), Galvanic Isolation
Connector	3.5mm Terminal Block
Maximum V/A	0.3A@30VDC (DO)
Other	
Reset Button	1 x Reset
LED Indicators	1 x Power, 1 x System, 1 x SIM, 1 x Wi-Fi, 1 x VPN, 3 x Signal Strength
Built-In	Watchdog, Timer

Technical Specifications

Part No.	SIL iSITE Switch	Ver.1.3
Software		
Network Protocols	IPv4/IPv6, PPP, PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, RIPv1/v2, OSPF, DDNS, VRRP, HTTP, HTTPS, DNS, ARP, QOS, SNTP, Telnet, VLAN, SSH, etc.	
VPN	DMVPN, IPsec, OpenVPN, PPTP, L2TP, GRE	
Security	Access Control, DMZ, Port Mapping, MAC Binding, SPI Firewalls, DoS&DDoS Protection, Filtering(IP&Domain), IP Passthrough	
Management	Web, CLI, SMS, On-demand dial up, SNMP v1/v2/v3, DeviceHub	
AAA	Radius, Tacacs+, LDAP, Local Authentication	
Multilevel Authority	Multiple Levels of User Authority	
Reliability	VRRP, WAN Failover, Dual SIM Backup	
Serial Port	Transparent(TCP Client/Server, UDP), Modbus Master/Slave, Modbus Gateway (Modbus RTU to Modbus TCP)	
Power		
Power Connector	2-Pin 5.08mm Terminal Block	
Input Voltage	9-48VDC with Surge-Protection and Reverse Polarity Protection	
Power Consumption	3.9W Typical, 4.6W Max (In Non-PoE Mode)	
Physical		
Ingress Protection	IP30	
Housing & Weight	Metal Enclosure, 485g	
Dimension	135mm x 103mm x 45mm (5.31in x 4.06in x 1.77in)	
Installation	Desktop, Wall & DIN Rail Mounting	
Environmental		
Operating	-40°C to +70°C (-40°F to +158°F) Reduced Cellular Performance Above 60°C	
Storage Temperature	-40°C to +85°C (-40°F to +185°F)	
Ethernet Isolation	1.5 kV RMS	
Relative Humidity	0% to 95% (non-condensing) at 25°C/77°F	
Approvals		
Regulatory	CE, FCC, RCM	
Environmental	RoHS	
EMC	EN 55032, EN 55035	
EMS	IEC 61000-4-2 Level 3 IEC 61000-4-3 Level 2, IEC 61000-4-4 Level 3, IEC 61000-4-5 Level 3, IEC 61000-4-6 Level 3, IEC 61000-4-8 Level 4, IEC 61000-4-11 Level 3	
Radio Frequency	EN 301 489-1/17/19/52, EN 301 511, EN 301 908-1/2/13, EN 303 413, EN300 328	
Safety	EN62368-1	

Dimensions

Typical applications