

iSITE Switch 5G Router

SIL iSITE Switch 5G

Industrial Cellular Router



OVERVIEW

The iSite Switch 5G is a powerful and versatile industrial-grade router designed to meet the demands of a wide range of M2M/IoT applications. This high-performance device is built to strict industrial standards, ensuring reliable and consistent performance even in the most challenging environments.

Featuring a powerful quad-core CPU and advanced cellular module, the iSite Switch 5G is capable of supporting global WCDMA, 4G LTE, and 5G sub-6 Ghz NSA and SA networks. This makes it an ideal choice for applications where high-speed data transfer and reliable connectivity are essential, such as smart grids, digital media installations, industrial automation, telemetry equipment, medical devices, digital factories, finance, payment devices, environmental protection, and water conservation.

In addition to its advanced connectivity features, the iSite 5G also boasts a 5-port Gigabit Ethernet switch, RS232/RS485 serial ports, and digital input/output, providing users with a wide range of options for expanding their M2M applications. This allows for easy and cost-effective scaling of data collection and high-speed transmission capabilities, making it an excellent choice for businesses looking to optimize their operations without breaking the bank.

With its powerful hardware, robust connectivity options, and flexible expansion capabilities, the iSite 5G is an ideal solution for businesses and organizations of all sizes that require reliable and high-performance M2M/IoT connectivity.

Features

- Industrial-grade quad-core CPU ARM Cortex-A55
- Global 5G (NSA/SA)/4G LTE network with dual SIM for backup between multiple carrier networks
- Flexible modular design providing Ethernet, I/O, Serial, Wi-Fi and GPS
- Dual Carrier Aggregation (2CC CA)
- Rugged enclosure with IP30 protection for harsh environments
- 2 Year Warranty as standard
- Supports 802.11ax
- Embedded Hardware Watchdog to automatically recover from failures
- Automatic Failover between Ethernet, Cellular and Wi-Fi
- Supports VPN Tunnels IPsec, OpenVPN, GRE, L2TP, PPTP, DMVPN
- Supports policy routing and NAT for more secure internet access

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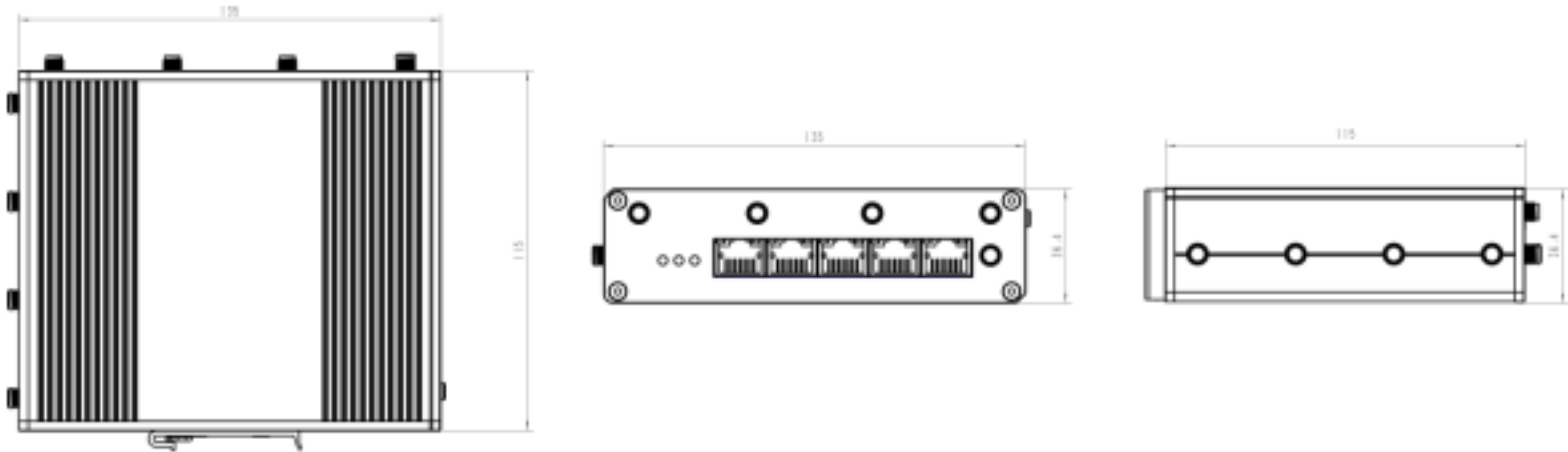
Technical Specifications

Part No.	SIL iSITE Switch 5G
Hardware	
CPU	Quad-Core ARM Cortex-A55, 2GHz
Memory	1 GB DDR4x RAM and 1 GB NAND Flash
Extendable Storage	1 x M.2 NVMe SSD Interface
Cellular	
Network	5G NR SA & NSA/4G LTE/WCDMA
Frequency	5G Sub-6: N1/N3/N5/N7/N8/N20/N28/N38/N40/N41/N77/N78 LTE FDD: B1/B3/B5/B7/B8/B20/B28/B32 LTE TDD: B38/B40/B41/B42/B43 WCDMA: B1/B5/B8
Antenna Connector	4 x 50 Ω SMA Connectors (Centre PIN: SMA Female)
SIM Slots	2 (Mini SIM-2FF)
Ethernet	
Ports	5 x 10/100/1000 Mbps
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	4 x 50 Ω SMA Connector (Center PIN: RP-SMA Female)
Standards	IEEE 802.11b/g/n/ax 2 x 2 MIMO, 2.4 GHz IEEE 802.11a/n/ac/ax 2 x 2 MIMO, 5 GHz
Max Bit Rate	2.4 GHz: 600 Mbps, 5 GHz: 1200 Mbps
Modes	AP or Client
Security	WEP/WPA/WPA2 authentication, WEP/TKIP/AES encryption
GNSS	
Antenna Connector	1 x 50 Ω SMA Connector (Centre PIN: SMA Female)
Protocol	NMEA 0183
Technology	GPS/GLONASS/Beidou/Galileo/QZSS
Serial	
Port	1 x RS232 + 1 x RS485
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
USB	1 x USB 3.0 (Type-C) for Power Supply, Network Supply and Debug
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
Software	
Network Protocols	IPv4/IPv6, TCP, UDP, DHCP, HTTP, HTTPS, ARP, NTP, DNS, ARP, SSH, VLAN, etc.
VPN	IPsec, OpenVPN, LT2P, PPTP
Security	Access Control, DMZ, Port Forwarding, SYN-Flood Protection, Filtering(IP& MAC & Domain)
Management	Web, DeviceHub, SilverNetVPN
Reliability	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 3.5mm Terminal Block
Power Input	1. 9-48 VDC, with Surge-Protection and Reverse Polarity Protection 2. 5V, 3A by Type-C Port
Power Consumption	Without Wi-Fi: Typical 2.8 W, Max 5.5 W With Wi-Fi: Typical 7 W, Max 13.7 W
Physical	
Ingress Protection	IP30
Housing	Metal Enclosure
Dimension	135mm x 115mm x 36.4mm (5.31 x 4.53 x 1.43 in)
Installation	Desktop, Wall & DIN Rail Mounting
Environmental	
Operating	-30°C to +60°C (-22°F to +140°F)
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

Dimensions



Typical applications

