

# Ricon Mobile



# S9960ME-LTE

## L2/L3 SFP Router Switch

## Datasheet

Efficiency with Innovative Technology

## S9960ME-LTE SFP Router Switch



The **RICON S9960ME-LTE SFP Router Switch** is a mobile network router designed based on Fiber, WiFi and VPN technologies. It is equipped with a powerful 64-bit processor and an operating system specially developed by Ricon Mobile. It can easily connect any network device connected via interface connections such as Ethernet and WiFi to the Internet or a central local network with a simple configuration.

S9960ME-LTE SFP Router Switch; It is a fiber optic terminator switch that allows the distribution of fiber lines to companies or end users via Ethernet.

### S9960ME-LTE SFP Router Switch Models & Quick Specifications



**S9960ME-LTE**



- 4 x LAN (Gigabit)
- 1 x WAN (Gigabit)
- 2 x SIM Slot (Passive Backup)
- Single GSM Modulated
- 1 x SFP (Gigabit)
- 1 x USB 2.0
- 2 x FXS support
- 1 x Micro SD
- Gigabit Longrange
- 802.11b/g/n/ac Wi-Fi
- WEB User Interface / CLI / SNMP / Telnet / SSH
- Ricon Management System (RMS)
- 2 x 2 LTE MIMO SMA Antenna
- 1 x 802.11b/g/n Antenna, 1 x 802.11ac Antenna

### S9960ME-LTE SFP Router Switch Device Features

#### Indicators



- » SFP: Status Indicator
- » NET: Connection Setup
- » WLAN: Wireless LAN Connection
- » WAN: Wide Area Network Cable Connection Status
- » LAN: Local Area Cable Connection Status (Lan1 ~ Lan4)
- » POWER: Power Status
- » VPN: Connection Status Indicator
- » WPS: Clear Wifi Connectivity Indicator
- » VoIP: IP phone connection indicator

#### Interfaces



- » 4x10 / 100/1000 Mb LAN Port
- » 1x10 / 100/1000 Mb WAN Port
- » 1x10 / 100/1000 Mb SFP Port
- » 1xStandard DC Power Input Port
- » 1xUSB Input Port

#### Wi-Fi



- » Standard: IEEE 802.11b/g/n 2.4GHz Wi-Fi
- » AP, client, bridge mode support
- » WEP, WPA and WPA2 encryption with AES-TKIP
- » IEEE 802.11ac optional 5GHz Wi-Fi support
- » SSID Insulation support
- » Channel management support
- » 20MHz / 40MHz /80MHz Beamer support

#### Power



- » Idle: 12V / 1A
- » Single Module Power Consumption: <5W
- » Power Supply: 5 - 36VDC

# Specifications

## S9960ME-LTE SFP Router Switch

### Device Management

- » Local or remote web browser (IE v8 or higher)
- » CLI / Telnet command
- » SNMP network management protocol,
- » TR069 WAN management protocol,
- » SSH configuration

### Firewall and Filtering

- » IP packet / Domain / MAC Filter
- » NAT
- » DMZ
- » Protocol Type Check
- » SPI firewall, port control
- » VLAN Tagging

### Routing Protocols

- » Static Routing, Regulatory Routing, Port Routing
- » RIPv2 / OSPF / BGP Dynamic Routing

### Data Features

- » QoS: Speed limitation, packet prioritization
- » IPv4 / IPv6, TCP / IP, UDP, RTP, SNTP, NAT, DNS, DDNS
- » Address management: Static, DHCP Server, IP / MAC connector, DHCP switching

### Multiple Mode of Operation

- » Led monitor
- » WEB, CLI, SSH, multi-parameter management support
- » Data trigger online / offline
- » LCP / ICMP / flow / availability signal control, network availability

### Ultra Secure Data Transmission

- » Support VPN / L2TP / PPTP / IPSec / OpenVPN
- » IPSec over PPTP / L2TP
- » Supports DHCP Server
- » SNMP network management, NTP support, GPS clock support
- » OSPF, RIP, BGP
- » Optional QoS (QoS) protocol, application, IP subnet Intelligent control base on the network

### Cellular Networks

- » EDGE/GPRS
- » FDD-LTE/TDD-LTE
- » WCDMA/UMTS/HSPA/HSPA+CDMA2000 EVDO/CDMA 1x
- » Ethernet Standard
- » IEEE 802.3
- » IEEE 802.3U

### Full Network Mode

- » WAN, WLAN
- » WLAN AP / Station / Repeater,
- » 802.11n 2.4GHz up to 300 Mbps, 802.11ac 5GHz up to 900 Mbps 4 LAN ports, support Fiber SFP
- » WAN support ADSL (PPPoE), static IP, DHCP client
- » 802.11b/g/n optional Wi-Fi, WPS switch
- » DNS proxy and Dynamic DNS (DDNS) support

### Certifications

» Health	EN 62311
» Safety	EN 60950 - 1+A11+A1+A12
» EMC	EN 301-489-1/-7/-17/-24
	EN 55022, EN 55024
» Radio	EN 301 511
	EN 301 908-1/-2
	EN 300 328



## S9960ME-LTE SFP Router Switch

### Features

- » Operating Temperature: 0 °C - 40 °C
- » Dimension: 240mm x 150mm x 35mm
- » Weight: 392gr.

### VPN

- » IPsec
- » PPTP server
- » L2TP server

### Multiple Working Modes

- » LED monitor
- » Support WEB, CLI, SSH, multiple parameter management
- » Data trigger online/offline
- » LCP/ICMP/flow/heartbeat check, ensure network usability

### Ultra Secure Data Transmission

- » VPN support GRE/L2TP/PPTP/IPSec/OpenVPN
- » GRE over IPSec, IPSec over PPTP/L2TP
- » Supports DHCP Server
- » SNMP network management, NTP support, GPS clock support
- » OSPF, RIP, BGP
- » Optional QoS (Quality of Service) smart control base on protocol, application,IP subnet

### Easy Maintenance Operation

- » Local / remote firmware and patch upgrade support
- » Parameter backup, import and encryption support
- » CFE firmware update support
- » Support console port maintenance
- » Smart switch support when using multiple servers
- » Easy to debug local / remote system log

### Full Network Mode

- » 4G(TD-LTE/FDD LTE), DC-HSPA+, HSPA+, HSPA, WCDMA, EVDO, TD-SCDMA, CDMA1x, EDGE/GPRS
- » WAN, WLAN, SIM1\SIM2 multiple way network
- » WLAN AP/station/repeater, 802.11n(802.11ac), at most 300Mbps
- » 4 LAN port
- » WAN support ADSL(PPPoE), static IP, DHCP client
- » Support VPDN, APN private network
- » 802.11b/g/n/ac Wi-Fi, WPS key
- » Supports DNS proxy and Dynamic DNS (DDNS)

### RMS Ricon Management System

- » Excellent monitor capability
- » Data flow detail
- » Instant statistics
- » Adjustable SLA Levels
- » SLA based live alarm control
- » Bulk remote configuration
- » Timed remote configuration
- » Remote terminal management maintenance
- » Checking the status of the Internet at any time
- » Display of the GIS device location
- » Remote debugging
- » Flow static and analysis
- » Automatic installation

### Data Features

- » QoS: Speed limitation, packet prioritization
- » IPv4 / IPv6, TCP / IP, UDP, RTP, SNTP, NAT, DNS, DDNS
- » Address management: Static, DHCP Server, IP / MAC connector, DHCP switching

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