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Ricon Mobile



S99550-5G

5G Outdoor Industrial
Router Datasheet

Efficiency Through Innovative Technology

RICON MOBILE INC.



S99550-5G Outdoor Industrial Router



The **Ricon Mobile S99550-5G** industrial router by Ricon Mobile Inc. Industrial grade quality, designed and manufactured in accordance with 5G cellular network technology. It is a kind of router with secondary development and extreme computing capabilities. S99550-5G router has dustproof and waterproof feature thanks to its IP65 protection certificate.

Ricon Mobile S99550-5G router provides maximum service to customers while Zero touch-SMS installation minimizes the need for field service with easy and automatic product installation service. The unique feature of the S99550-5G Router is that it is online and redundant over the network between WAN, WLAN, 5G network. This feature allows the S99550-5G to provide maximum network availability and reduce the likelihood of network failure to prevent losses due to network failures.

Ricon Mobile S99550-5G routers are web-based and can be easily routed with CLI. In addition, the Ricon Management System (RMS) successfully accomplishes the goal of reducing the maintenance costs with the ability to access all the Ricon products in the network and to access instant and statistical data on the web environment and manage them 100%.

S99550-5G Models & Quick Specifications

S99550-5G

- 3 x Ethernet LAN Interface (Gigabit)
- 1 x Ethernet LAN/WAN Combo Interface (Gigabit)
- 2 x SIM Slots
- Dual GSM Module
- 5G/LTE+/LTE/DC-HSPA+/HSPA+/HSPA/(3G)WCDMA/2G
- WEB UI/CLI/SNMP/Telnet/SSH
- Ricon Management System (RMS)
- Component-level Industrial Design
- 5G full-band design, 8 antennas
- 802.11b/g/n/ac Wi-Fi, 2.4G and 5.8G dual-band Wi-Fi

S99550-5G Router Specifications

Interfaces

- » 3 x 10/100/1000BaseT LAN Interface (MDI-X)
- » 1 x 10/100/1000BaseT WAN/LAN Combo Interface
- » 8 x 4G/5G antenna interface
- » 4 x WiFi antenna interface
- » 1 x GPS antenna interface
- » 2 x Standard SIM/R-UIM Interface
- » 1 x Reset Switch
- » 1 x TF Slot
- » 1 x USB2.0
- » 1 x DC Power socket
- » 1 x Terminal Row (With Connections Below)

Cellular Networks

- » 5G Frequency: n1/n2/n3/n5/n7/n8/n20/n28/n41/n66/n71/n77/n78/n79
- » LTE: B1/B2/B3/B4(66)/B5(18/19/26)/B7/B8/B12(17)/B13/B14/B20/B25/B26/B28/B29/B30/B38/B39/B40/B41/B42/B43/B46/B48/B71
- » EDGE/GPRS
- » FDD-LTE/TDD-(4.5G)LTE
- » WCDMA/UMTS/HSPA/HSPA+ CDMA2000 EVDO/CDMA 1x
- » Ethernet Standard
- » IEEE 802.3
- » IEEE 802.3U

Power

- » On Idle: 650mA + 12VDC
- » Single Module Power Consumption : <5W
- » Power Feed : 5 - 35VDC

Physical Specs

- » Dimensions : 213mm x 213mm x 51.5mm (except antenna)
- » Weight : 464 gr.

S99550-5G Outdoor Industrial Router

Routing Protocols

- » Statik route
- » RIPv2 / OSPF dynamic route
- » VRRP

Wi-Fi

- » Standard: IEEE 802.11b/g/n
- » AP, Client, Station, Bridge Mode Support
- » WEP, WPA and WPA2 encryption w/AES-TKIP
- » IEEE 802.11ac Optional 5Ghz Wi-Fi support
- » SSID Isolation Support
- » Channel manipulation support
- » 20Mhz/40Mhz beamer support
- » Dual Mesh Radio Application with 802.11ac

Temperature Recognition

- » Operation Temp.: -20°C to +70°C
- » Store Temp: -40°C ~ +85°C
- » Related humidity: <95 (noncondensing)

VPN

- » IPSec
- » PPTP/L2TP client
- » GRE/IPIP
- » OpenVPN

Device Management

- » Local or remote web browser (IE v8 or above)
- » CLI/Telnet command
- » RMS Ricon Management System (optional)
- » SSH config (optional)
- » Standard: IEEE 802.11b/g/n(ac optional)
- » AP, Client, station, bridge mode support
- » WEP, WPA and WPA2 encryption

Multiple Links Connection Insurance

- » Dual SIM single module for cold backup
- » Dual SIM dual module for hot backup or for load balance
- » SIM/WAN backup, dual SIM backup
- » WAN/SIM1/SIM2, links backup

Firewall & Filtering

- » IP packet/Domain/MAC Filter
- » NAT
- » DMZ

Feature

- » Support OpenWrt
- » Support feature customize with API
- » CPU: 580MHz
- » SDRAM: DDR2 256 MB
- » Flash: 128Mb

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



S99550-5G Outdoor Industrial Router

Multiple Working Modes

- » LED monitor
- » Internal Storage
- » 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
- » Optional QoS (Quality of Service) smart control base on protocol, application, IP subnet

Easy Maintenance Operation

- » Support local /remote firmware and patch upgrade
- » Support parameter backup and import, Support encryption
- » Support CFE firmware upgrade (Never about crash when doing upgrade)
- » Support Console port maintenance
- » Support smart switch when using multiple server
- » Local/Remote log for easy debugn

Full Network Mode

- » 5G, 4G(TD-LTE/FDD LTE), DS-HSPA+, HSPA+, HSPA, WCDMA, EVDO, TD-SCDM, CDMA1x , EDGE/GPRS
- » WAN, WLAN, SIM1\SIM2 multiple way network
- » WLAN AP/station/repeater, 802.11n(802.11ac optional), at most 300Mbps
- » 4 LAN port
- » WAN support ADSL(PPPoE), static IP, DHCP client
- » Support VPDN, APN private network
- » 802.11b/g/n(ac optional) Wi-Fi optional, WPS key
- » Supports DNS proxy and Dynamic DNS (DDNS)

RMS Ricon Management System

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

EMC4 Industrial Design, Stable and Durable

- » IP65 protection, dustproof and waterproof
- » System security isolation, Particularly suitable for the application of industrial control field
- » Wide range power supply (DC 5-35V)
- » Support WDT
- » Antenna lightning protection
- » SIM/UIIM port: 15KV ESD protection
- » Power port: reverse-voltage and overvoltage protection
- » Ethernet port: 1.5KV magnetic isolation protection

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