Ricon Mobile

S9955in-5G

5G Indoor Industrial Router Datasheet

Efficiency Through Innovative Technology

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RICON MOBILE INC.

S9955in-5G Indoor Industrial Router

The Ricon Mobile S9955in-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.

Ricon Mobile S9955IN-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 S9955IN-5G Router is that it is online and redundant over the network between WAN, WLAN, 5G network. This feature allows the S9955IN-5G to provide maximum network availability and reduce the likelihood of network failure to prevent losses due to network failures.

Ricon Mobile S9955IN-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%.

S9955IN-5G Models & Quick Specifications

S9955IN-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

S9955IN-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.

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S9955in-5G Indoor 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 manuplation 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

S9955in-5G Indoor 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

» 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/UIM port: 15KV ESD protection
» Power port: reverse-voltage and overvoltage protection
» Ethernet port: 1.5KV magnetic isolation protection

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