

Ricon Mobile P9922MC EV Charger Release 4.5G/5G Industrial PCBA Integrated Router Datasheet

Efficiency Through Innovative Technology



RICON Mobile Inc.

EV Charger Edition

Product Overview

P9922MC Industrial Integrated PCBA Router





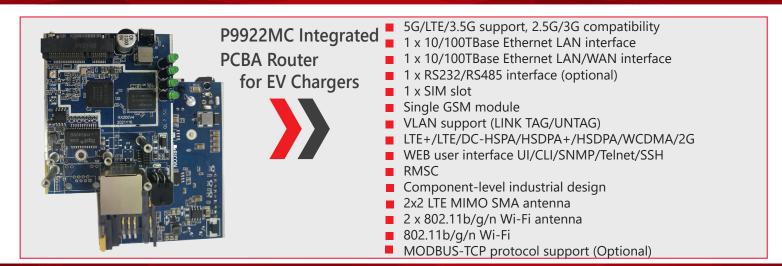
RICON P9922MC PCBA Integrated Router, by Ricon Mobile Inc. industrial grade quality, designed and manufactured in accordance with 3G/LTE cellular network technology to be integrated inside any electronic hardware needs cellular connectivity. With the embedded cellular module, it is widely used in many cases such as ATM connection, remote office security connection, data collection etc.

Ricon Mobile P9922MC router provides maximum service to customers while Zero Touch-SMS installation minimizes the need for field service with easy and automatic product installation service. P9922MC Router, Single Module Single SIM hardware type. The best throughput value of the P9922MC Router is 200 Mbps. The unique feature of the P9922MC Router is that it is online and redundant over the network between WAN, WLAN, 3G/LTE network. This feature allows the P9922MC to provide maximum network availability and reduce the likelihood of network failure to prevent losses due to network failures.

Mobile P9922MC routers are web-based and easily routed through CLI. In addition, the Ricon Management System Controller (RMSC) 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%.

P9922MC PCBA Model & Specification



P9922MC PCBA Integrated Router Specification

Interface			Indicator	- Å -
 » LAN » RS232 / RS485 » SMA-K (LTE MIMO) » SIM / R-UIM » Reset Switch » DC Power Socket » Digital I/O 	: 1 x 10/100BaseT(MDI-X) : 1 x 5 pin terminal socket : 2 x LTE/3G/2G : 1 x USIM slot : 1 : 1 x 3 pin minifit/microfit socket : 2 x 1 pin terminal socket	>> >> >> >>	LTE POWER WLAN WAN	: RF indicator : Power status : Wireless LAN connection : WAN cable connection status

Power Specification	(<u>}</u>)	Mechanics 🖗
 >> On Idle >> Single Module Power Consumption >> Power Feed 	: 80mA + 12VDC : <5W : 5 - 35VDC	 Dimension : 75mm x 60mm x 28mm (Small Form-Factor) Weight : 80 gr. Industrial aluminum alloy metal housing (Optional) IP54 or IP67 enclosure (Optional)



EV Charger Edition

Specification

P9922MC PCBA Integrated Industrial Router

Cellular Network	Wi-Fi 🤶		
 » EDGE/GPRS » Ethernet Standards: IEEE 802.3,IEEE 802.3U » FDD-LTE/TDD-LTE » WCDMA/UMTS/HSPA/HSPA+/CDMA2000 EVDO/CDMA 	 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 		

VPN

>>> IPSec

>> EoIP

>>> GRE/EoGRE >> OpenVPN, DMVPN

PPTP/L2TP client

»

Temperature Recognition

- » Operation Temp.
- >> Shelf Temp.
- >> Related Humidity
- :-40 °C ~ +75 °C
- : -45 °C ~ +85 °C
- : <%95 (non-condensing)

Integration Options

» Local or remote web browser

Device Management

- >> CLI/Telnet command
- >> RMSC
- SSH config
- >> Wi-Fi

- >> Ethernet Internal Jumper
- » Via PCIe Bus (Full Integration as Interface)
- >> UART/RS232 Controller Integration
- Terminal Block or Serial Cable

Firewall & Filtering

- » IP packet/Domain/MAC filter
- >> NAT
- >> DMZ
- >> VPN pass through
- Stateful firewall

Hardware Feature

- : Arm Cortex Dual Core » CPU
- **>>** SDRAM : DDR2 256 MB
- >> Flash : 64MB

Certifications

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



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Functional Features

P9922MC PCBA Integrated Industrial Router

Routing Protocols

- >> Static route
- Policy route
- » RIPv2/OSPF dynamic route
- > VRRP
- » BGP

Maintenance Operation

- >> Local/remote firmware and patch upgrade support
- » Backup, import configuration
- >> Easy to debug local/remote system log
- >> RMSC support

Secure Data Transmission

- >> 1024 bit encryption GRE/L2TP/PPTP/IPSec/OpenVPN/EoGRE
- » GRE over IPSec, IPSec over PPTP/L2TP
- Supports DHCP Server, DHCP Forwarding/Relay
- >> SNMP network management, NTP support
- » QoS (Quality of Service) protocol

RMSC

- » Excellent monitor feature
- >> IPFix support
- » SLA based live alarm control
- » Bulk remote configuration
- » Remote configuration with timer
- » Remote terminal management maintenance
- » Display of GIS device location (optional)
- >> Remote debugging
- » Flow static and analysis
- » Automatic installation (RiconApps)

Industrial Design

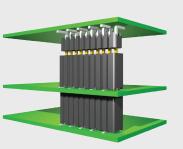
- » Aluminum alloy outer housing, IP54 protection
- System security isolation, Particularly suitable for the application of industrial control field
- Wide working power (DC 5-35V)
- » Antenna lightning protection
- SIM/UIM port: 15KV ESD protection
- >> Power port: reverse-voltage and overvoltage protection
- >>> Ethernet port: 1.5KV magnetic isolation protection

Supported Network Protocols

- AG (TD-LTE/FDD LTE), DS-HSPA +, HSPA +, HSPA, WCDMA, EVDO, TD-SCDM, CDMA1x, EDGE/GPRS
- » EWAN, WLAN, SIM1
- » WLAN AP/station/repeater, 802.11n up to 300Mbps
- >> VPDN
- » 802.11b/g/n Wi-Fi
- Supports DNS proxy and dynamic DNS (DDNS)
- » APN
- » DHCP client

Optional Interface / Features

- » RS232 Serial Port
- » RS485 Serial Port
- >> 2 x Digital I/O
- >> Unmodulated UART
- » Board To Board Connection



***The above options are available with an extension PCBA

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Integration Options

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P9922MC PCBA Integrated Industrial Router

Integration Options For EV Chargers

