Industrial 4G LTE Cellular Router

Xentino

Product Overview

Programmable IoT Gateway with Rich I/O

MR351W is an OpenWrt based Linux OS industrial IoT gateway, which provides C/C++, Python programmable embedded environment for IoT developers and programmers to implement their industrial applications in a flexible and easy way.

MR351W has rich I/O like RJ45, RS232/RS485, DI/DO, USB, WIFI, GPS, and protocols such as MQTT, Modbus RTU/TCP, Modbus to Json, TCP/UDP, to collect and transfer the data from diverse sensors and controllers to the cloud, and remotely control the industrial equipment. Besides, its captive portal feature is ideal for WIFI advertisement applications of transportation.

MR351W has option of dual sim or dual module for failover or load balance, provides secure, robust and reliable wireless and wired connectivity for your mission-critical industrial applications, and it has been widely used for air compressor monitor and control, bus WIFI advertisement, water pump control, electricity substation monitor, etc.



Key Features

- Global 4G LTE/3G/2G cellular network supported
- Dual SIM or dual module supports failover or load balance mode1, auto switchover between wireless and wired WAN
- Rich interfaces: 4-LAN, 1-WAN, 1-USB, 2-DI, 2-Relay, 1-RS232, 1-RS485, WIFI(802.11b/g/n), GPS(Option)
- LTE/3G/PPPoE DHCP and static address connection
- Captive portal for WIFI advertisement solution of transportation2
- APN/VPDN, and multiple VPN protocols, IPsec, L2TP, PPTP, GRE and OpenVPN, to ensure secure data transmission
- DHCP server, DHCP binding MAC address, DDNS, firewall, NAT, DMZ host, QoS, traffic analysis
- MQTT, Modbus RTU/TCP, TCP/UDP, HTTP, SNMP protocols
- SPI Firewall, Access Control, Port Mapping, DMZ Mapping, Access Control List (ACL), IP-MAC binding and Clone function
- Web UI, telnet & SSH CLI, AT Command configuration
- Web upgrade, local and remote syslog, serial port output log
- SMS commands and DMP(Device Management Platform)3 for remote configuration and management
- OpenWrt based Linux OS, provides programmable environment via C/C++, Python, LUA, SDK



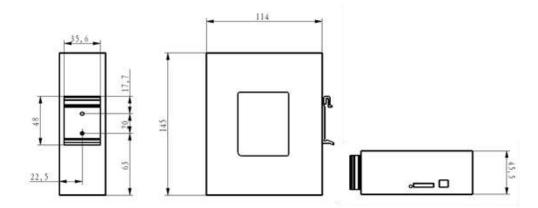
MR351W

Specifications

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Cellular Interfaces		Software	
Antenna Connector	2x500hm - SMA Female	Network Protocols	PPP, PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, RIPv1/v2,
SIM Slot	1 or 2 (DSSM or DSDM)		OSPF, BGP, DNS, DDNS, HTTP, ARP, QoS, SNTP, Telnet, SSH
ESD Protection	15KV	Serial Port	MQTT, Transparent (TCP Client/Server, UDP Client/Server)
Ethernet Interfaces			Modbus Gateway (Modbus RTU to Modbus TCP)
	5xRJ45 (1xWAN, 4xLAN – 5th ETH LAN/WAN	VPN Tunnel	
Ports	Configurable)	VPN Turmer	IPSec/PPTP/L2TP/GRE/OpenVPN
Data Rates	10/100Mbps (Auto-Sensing), Auto MDI/MDIX	Firewall	ACL/DMZ/Port Mapping/MAC Binding
ESD Protection	1.5KV	Management	Web, CLI, SMS, Cloud, DMP (Device Management Platform)
Serial Interfaces		Reliability	WWAN and WAN Failover, Dual SIM backup and Load Balance,
Connector	Terminal Block, 3.5mm Female Socket with Lock		Hardware & Software WatchDog
Ports	1xRS232, 1xRS485	Secondary Development	OpenWRT based Linux OS, support C/C++, Python, LUA and SDK
Baud Rate	300bps to 230400bps	Physical Characteristics	
ESD Protection	8KV for RS232, 15KV for RS485	Ingress Protection	IP30
Wireless		Housing & Weight	Metal, 630g(1.39lbs), without accessories
Antenna Connector	1x50Ohm SMA Male	Dimensions	145x114x45mm (5.71x4.49x1.77inch)
Standards	IEEE 802.11/b/g/n - AP and CLIENT Modes	Mounting	Desktop, DIN Rail
Transmission Rate	IEEE 802.11/b/g : Up to 54Mbps	Environmental	
	IEEE 802.11/n : Up to 300Mbps	Operating Temperature	-35C to +75C (-31F to +167F)
Security	Open, WPA, WPA2, WPA/WPA2 Enterprise, RADIUS	Storage Temperature	-40C to +80C (-40F to +176F)
TX Power	18dBm (11g), 21dBm (11b)	Relative Humidity	5% to 95% (non-condensing)
RX Sensivity	<-72dBm@54Mbps	Ethernet Isolation	1.5kV RMS
I/O		Others	
Connector	Terminal Block, 3.5mm Female Socket with Lock	Reset Button	1
DI	2xDI (0-30V Input) Status "0"=0-3V - "1"=5-30V	LED Indicators	Power, WiFi, System, Alarm, Online, Signal Strenght
DO	2xRelay (Up to 5A and 30VDC/250VAC Output)	Built-In	WatchDog, RTC, Timer
External Storage		Approvals	CE, RCM, FCC, NBTC
USB Port	1xUSB 2.0	Warranty Period	Standard : 12Month
SD (Optional)	1xMicro SD Interface, Supports up to 32G		Extended : 2Years
Usage	User Program, Data Storage and Firmware Upgrade	Standard Package Conten	t
GPS (Optional)		1pcs	MR351W Gateway
Module	Built-in independent GPS Module	1pcs	Power Adapter (DC 12V/1.5A, EU/US/UK/AU plug optional)
Antenna Connector	1x500hm SMA Female	1pcs	RP-SMA WiFi Antenna (19.5cm, 5dBi)
Power Supply and Consumption		2pcs	Mag-Mount Cellular Antenna (SMA Male, 1 Meter, 5dBi)
Connector	2-Pin with 3.5mm Terminal Block	1pcs	RS232 Cable (DB9 Female, 1 Meter)
Standard Power	DC 12V/1.5A	1pcs	Ethernet Cable (1Meter)
		2000	
Input Voltage	5-35VDC	2pcs	6-Pin Terminal Block
Input Voltage Working Mode	5-35VDC 280 - 330mA@12VDC	2pcs 1pcs	2-Pin Terminal Block

Dimensions



Xentino Technologies Corp.