

ICR-W401

4G LTE, WiFi IEEE 802.11 b/g/n 2T2R, RS232 Com port and DI/DO Gateway

NEW



- Multi-band connectivity with FDD LTE/ TDD LTE/ WCDMA/ GSM/ LTE Cat 4
- IEEE 802.11b/g/n WiFi 2T2R
- Enhance security and encryption for authentication and transmission
- -40 ~ +75°C for use in harsh environments

CTC Union's ICR-W401 is a compact, lightweight and cost-effective Industrial grade 4G LTE gateway that has 1 LAN plus 1 WAN Fast Ethernet connection and supports uplink to 2G/3G/4G mobile data networks. Built for harsh environments, the gateway is equipped with a single RS232 serial port and a DI/DO interface. The ICR-W401 is simple to configure through its embedded Web user interface and can be deployed where the collection of real-time data transmissions is required for Industrial IoT and M2M (machine-to-machine) applications. The ICR-W401's WiFi is compliant with IEEE 802.11b/g/n wireless connectivity. The gateway features VPN Tunneling with Firewall and management capability via TR069 and SNMP. The ICR-W401 provides a highly secure authentication, encryption and management to protect your data between public and private networks and simplify your complicated solutions for smart city and industrial networking.

Features

- Highly reliable and secure for mission-critical cellular communications
- Compact and lightweight design with 1 LAN and 1 WAN Ethernet interfaces
- Supports multi-band connectivity with FDD LTE/ TDD LTE/ WCDMA/ GSM/ LTE Cat 4
- Provides IEEE 802.11b/g/n WiFi 2T2R
- Micro SIM connector, RS232 serial 3-wire port and DI/DO interfaces
- LED indicators for connection and data transmission status
- Industrial temperature rated from -40 ~ +75°C for use in harsh environments
- IPv6/IPv4 dual stack and all applications are IPv6 ready
- Support serial communication protocols for rich connectivity
- Enhance security and encryption for authentication and transmission

Specifications

Standard	IEEE 802.3 10Base-T 10Mbit/s Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.1Q Virtual LANs (VLAN) IEEE 802.3x Flow control for Full Duplex IEEE 802.1Q Virtual LANs (VLAN) IEEE 802.1p LAN Layer 2 QoS for Traffic Prioritization IEEE 802.1X Port based and MAC based Network Access Control, Authentication	Housing	Rugged metal, Fanless, IP30 protection
LTE Interface	Cellular MobilComm standard: (Please see order information for optional area and band) 4G LTE: FDD-LTE, TDD-LTE 3G: WCDMA 2G: GSM/EDGE GNSS: GPS LTE Data rate: Cat 4 1 x micro SIM Connector (push-push type)	Dimensions (W x H x D)	30x 92 x 75 mm
WiFi Interface (ICR-W401)	IEEE 802.11b/g/n WiFi Standards Support AP or Station mode 2 x RP-SMA for WiFi Antenna	Weight	400g
Hardware Interface	1 x Micro SIM Connector (push-push type) 1 x LAN 10/100 Mbps Ethernet port 1 x WAN 10/100 Mbps Ethernet port Reset Button for device reset 1x RS232 for serial Com port or console configuration (TXD/RXD/GND) 1 x DI (Non-Isolated), 1 x DO (Non-Isolated) 2 x SMA connectors for detachable LTE Antenna 2 x RP-SMA for WiFi Antenna 1 x GPS detachable Antenna	Installation	DIN Rail mounting, or wall mounting (optional)
		LED Display	1 x Power LED 2 x Ethernet LED for each port (LAN/WAN) 1x LTE LED 1 x Function LED (User define by Web)
		Power Supply	Power Consumption 7 Watt(Max) Power Input 8 ~ 36VDC
		Operating Temperature	-40 ~ +75°C
		Storage Temperature	-40 ~ +85°C
		Operating Humidity	10 ~ 95% (non-condensing)
		MTBF	271,952 Hours (MIL-HDBK-217)
		Warranty	5 Years
		Certification	EMC CE (EN55032 + EN55024) EMI FCC part 15 subpart B class A, CE (EN55032) Shock IEC 60068-2-27 Freefall IEC 60068-2-32 Vibration IEC 60068-2-6

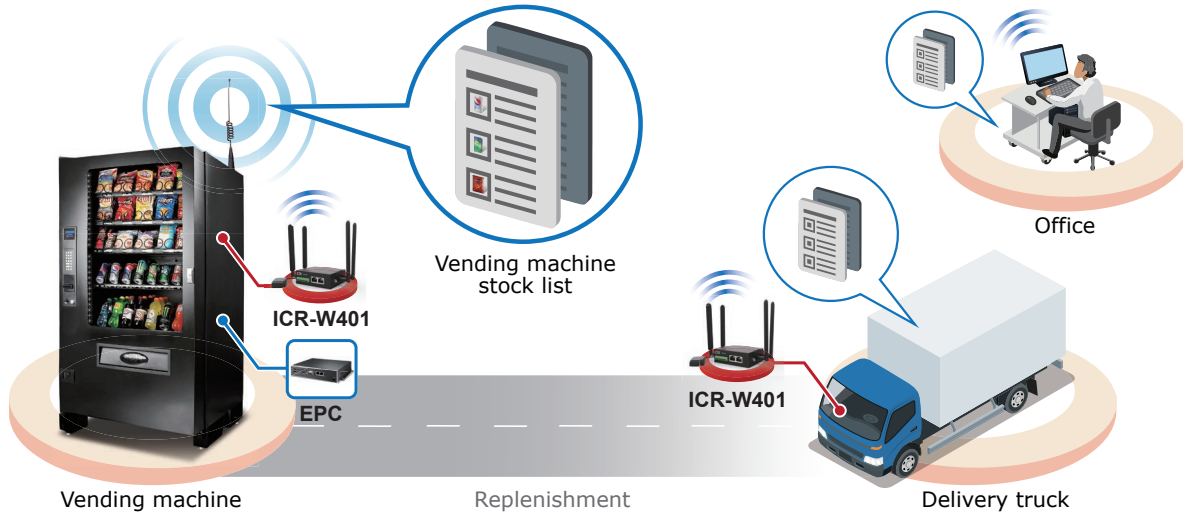
Software Specifications

Network Protocols	IPv4, IPv6, IPv4/IPv6 dual stack, DHCP server and client, PPPoE, Static IP, SNTP, GPS sync time, DNS Proxy, VRRP, OSPF, Message Queue Telemetry Transport (MQTT Broker), BGP
Routing/Firewall	NAT, Virtual Server, DMZ, MAC Filter, URL Filter, IP Filter, VLAN, Static Routing, RIP 1, RIP 2
VPN	OpenVPN, IPSec (3DES, AES128, AES196, AES256, MD5, SHA-1, SHA256), GRE, PPTP, L2TP

Others	DDNS, QoS, UPnP
Alarm	DI, DO, SMS, VPN/WAN Disconnect, SNMP Trap, Email, TR069
Management	Web GUI for remote and local management, CLI Syslog monitor SNMP, TR069 Remote management via SSH v2, HTTPS Local management via Telnet, SSH v2, HTTP/HTTPS

Application

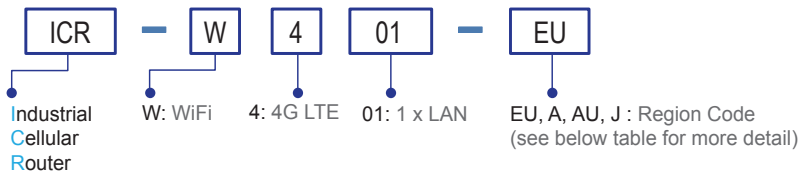
The vending machine logistics system application



Ordering Information

Model Name	Managed	WAN		Local port				Certification		
		"Cellular Mobil Band (2 Sim for Redundant)"	"10/100 Base-TX"	"WiFi IEEE 802.11 b/g/n"	"10/100 Base-TX"	RS232	DI/DO	CE	FCC	Shock, Freefall, Vibration
ICR-W401-EU	V	see Region code table EU	1	1	1	1	1	V	V	V
ICR-W401-A	V	see Region code table A	1	1	1	1	1	V	V	V
ICR-W401-AU	V	see Region code table AU	1	1	1	1	1	V	V	V
ICR-W401-J	V	see Region code table J	1	1	1	1	1	V	V	V

Model Naming Rule



MobilComm region Code Optional

Region Code	4G LTE		3G	2G	Region
	FDD LTE	TDD LTE	WCDMA	GSM / EDGE	
EU	B1(2100), B3(1800), B5(850), B7(2600), B8(900), B20(800)	B38(2600), B40(2300), B41(2500)	B1(2100), B5(850), B8(900)	B3(1800), B8(900)	Europe, Africa, Middle East, Korea, Thailand, India
A	B2(1900), B4(1700), B12(700)		B2(1900), B4(1700), B5(850)		USA (AT&T, T-Mobile)
AU	B1(2100), B2(1900), B3(1800), B4(1700), B5(850), B7(2600), B8(900), B28(700)	B40(2300)	B1(2100), B2(1900), B5(850), B8(900)	B2(1900), B3(1800), B5(850), B8(900)	ANZ, South America, Taiwan
J	B1(2100), B3(1800), B8(900), B18(850), B19(850), B26(850)	B41(2500)	B1(2100), B6(850), B8(900), B19(850)		Japan

Optional Accessories

Antenna accessories

ANT-BASE-01	Antennas Base with Magnetic, SMF (Male) connector, 1 meter extension
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Wall mount kit accessories

IND-WMK03	Wall Mount kit for Industrial product (Compact, 150x 30mm)
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