CTC union ®

ICR-W401

4G LTE, GPS, WiFi IEEE 802.11 b/g/n 2T2R and DI/DO Router

- 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
- -30 ~ +70°C for use in harsh environments
- Compact

CE   4G LTE   WiFi   GPS

The ICR-W401 is a compact, lightweight and cost-effective Industrial grade 4G LTE Router 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 router is equipped with a DI/DO interface. The ICR-W401 is simple to configure through its embedded Web user interface applications. The ICR-W401's WiFi is compliant with IEEE 802.11b/g/n wireless connectivity. The Router features VPN Tunneling with Firewall and management capability via TR069 and SNMP. The ICR-W401 provides 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 and DI/DO interfaces
- LED indicators for connection and data transmission status
- Industrial temperature rated from -30 ~ +70°C for use in harsh environments
- IPv6/IPv4 dual stack and all applications are IPv6 ready
- Enhance security and encryption for authentication and transmission
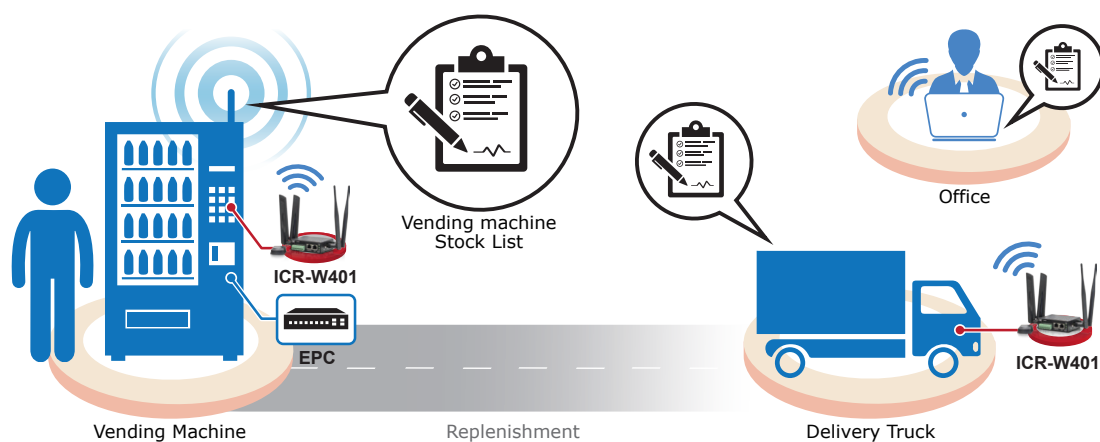
Specifications

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 802.1p LAN Layer 2 QoS for Traffic Prioritization IEEE 802.1X Port based and MAC based Network Access Control, Authentication
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, 150Mbps (Down load) 50Mbps (up load) 1 x micro SIM Connector (push-push type)
WiFi Interface (ICR-W401)	IEEE 802.11b/g/n WiFi Standards Support AP or Station mode 2 x RP-SMA for WiFi Antenna 2T2R 300Mbps wireless operation rate 2.4GHz radio for wireless
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 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
Housing	Rugged metal, Fanless, IP30 protection
Dimensions (D x W x H)	75x 92x 30mm
Weight	400g
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 12/24/48VDC (9.6~60VDC)	
Operating Temperature	-30 ~ 70°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, EN55035)
	Radio	NCC (ICR-W401-TW) EN62311 RED ETSI EN301 489-1 RED ETSI EN301 489-17 RED ETSI EN301 489-19 RED ETSI EN301 489-52 RED ETSI EN301 511 RED ETSI EN301 908-1 RED ETSI EN301 908-2 RED ETSI EN301 908-13 RED ETSI EN300 328 RED ETSI EN303 413
	Safety	EN62368-1
	Shock	IEC 60068-2-27
	Freefall	IEC 60068-2-32
	Vibration	IEC 60068-2-6

Software Specifications
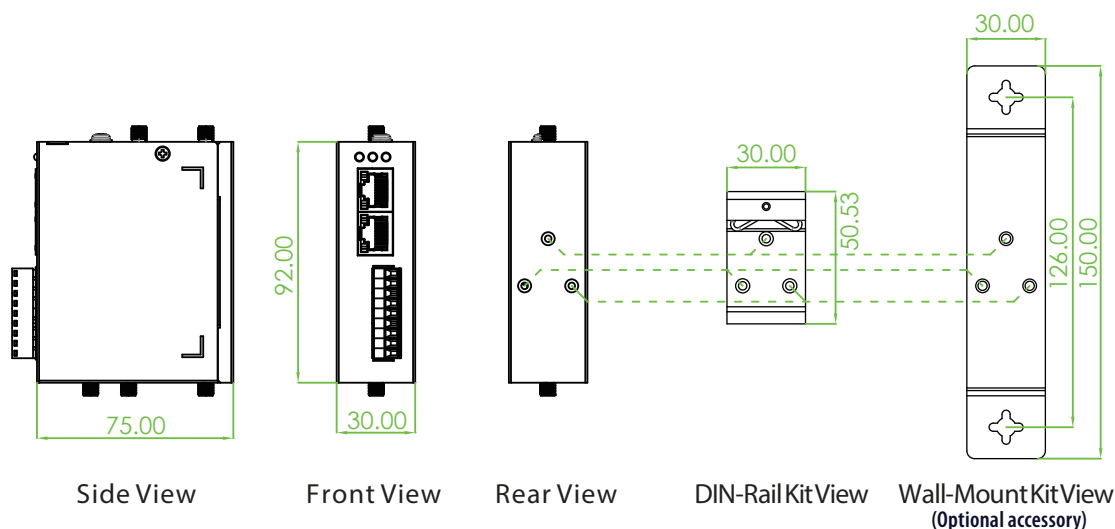
Network Protocols	IPv4, IPv6, IPv4/IPv6 dual stack, DHCP server and client, PPPoE, Static IP, SNTP, GPS sync time, DNS Proxy, VRRP, OSPF, Message Queue Telemetry Transport (MQTT Broker), BGP	**Others**	DDNS, QoS, UPnP, SMS action, GPS track Drawing, GPS TCP Push
Routing/Firewall	NAT, Virtual Server, DMZ, MAC Filter, URL Filter, IP Filter, VLAN, Static Routing, RIP 1, RIP 2, IPS, Policy Route	**Alarm**	DI, DO, SMS, VPN/WAN Disconnect, SNMP Trap, Email, TR069
VPN	OpenVPN, IPSec (3DES, AES128, AES196, AES256, MD5, SHA-1, SHA256), GRE, PPTP, L2TP	**Management**	Web GUI for remote and local management, CLI
WiFi	Security with WPA2-PSK (AES) Multiple SSID Wireless Mac Filtering Wireless client isolation Wireless Connectivity: WAN WiFi Client		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

Dimensions

Side View — Front View — Rear View — DIN-Rail Kit View — Wall-Mount Kit View **(Optional accessory)**

Specifications & design are subject to change without prior notice. Please visit CTC Union website for more details.

Ordering Information

Model Name	Managed	WAN		LAN			Safety EN62368-1	Certification			
		Cellular Mobile Band	10/100 Base-TX	WiFi IEEE 802.11 b/g/n	10/100 Base-TX	DI/DO		CE	RED	NCC	Shock, Freefall, Vibration
ICR-W401-EU	V	see Region code table EU	1	1	1	1	V	V	V		V
ICR-W401-A	V	see Region code table A	1	1	1	1	V	V	V		V
ICR-W401-TW	V	see Region code table TW	1	1	1	1	V	V	V	V	V

MobilComm Region Code Options

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)
TW	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

Optional Accessories

■ Antenna Accessories

ANT-BASE-01	Antennas Base with Magnetic, SMA (Male) connector, 1.5meter for 4G LTE extension

ANT-BASE-01

■ Wall Mount Kit Accessories

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

■ Industrial Power Supply

MDR-40-24	Industrial Power, Input 85 ~ 264VAC/120 ~ 370VDC, Output 24VDC, 40W, -20 ~ +70°C
MDR-40-48	Industrial Power, Input 85 ~ 264VAC/120 ~ 370VDC, Output 48VDC, 40W, -20 ~ +70°C