ICR-W401

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



- 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
- Compact









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-tomachine) 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 \sim +75 $^{\circ}$ 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 802.1p 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 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
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 1 x 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
Housing	Rugged metal, Fanless, IP30 protection

Dimensions (W x H x D)	30x 92 x 75 mm					
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 7 Watt(Max)					
	Power Inpu	ut 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	tion 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				
Operating Temperature Storage Temperature Operating Humidity MTBF Warranty	2 x Etherne 1x LTE LED 1 x Functic Power Consumpt Power Inpu -40 ~ 75°C -40 ~ 85°C 10 ~ 95% (i 271,952 Ho (MIL-HDBK 5 Years EMC EMI Shock Freefall	cet LED for each port (LAN/WAN) on LED (User define by Web) ion 7 Watt(Max) ut 8 ~ 36VDC mon-condensing) ours -217) CE (EN55032 + EN55024) FCC part 15 subpart B class A, CE (EN55032) IEC 60068-2-27 IEC 60068-2-32				

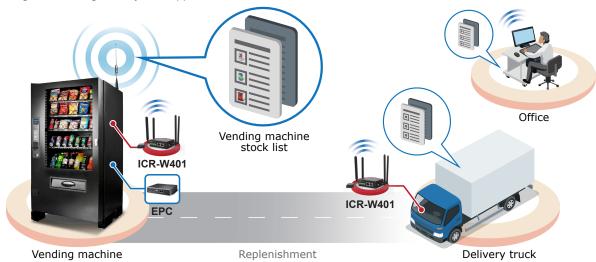


Software Specifications

Network	IPv4, IPv6, IPv4/IPv6 dual stack, DHCP server and client,	Others	DDNS, QoS, UPnP		
Protocols	PPPoE, Static IP, SNTP, GPS sync time, DNS Proxy, VRRP, OSPF, Message Queue Telemetry Transport (MQTT	Alarm	DI, DO, SMS, VPN/WAN Disconnect, SNMP Trap, Email, TR069		
	Broker), BGP	Management	Web GUI for remote and local management, CLI		
Routing/Firewall	NAT, Virtual Server, DMZ, MAC Filter, URL Filter, IP Filter, VLAN, Static Routing, RIP 1, RIP 2		Syslog monitor		
VPN	OpenVPN, IPSec (3DES, AES128, AES196, AES256, MD5,		SNMP, TR069		
	SHA-1, SHA256), GRE, PPTP, L2TP		Remote management via SSH v2, HTTPS Local management via Telnet, SSH v2, HTTP/HTTPS		

Application

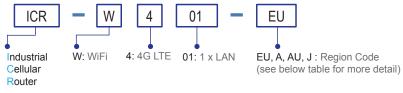
The vending machine logistics system application



Ordering Information

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

Model Naming Rule



MobilComm Region Code Options

	4G L	TE	3G	2G	Region	
Region Code	FDD LTE	TDD LTE	DLTE WCDMA GSM / EDGE		Region	
EU	B1(2100), B3(1800), B5(850), B7(2600), B8(900), B20(800)		B1(2100), B5(850), B8(900)	B3(1800), B8(900)	Europe, Africa, Middle East, Korea,Thailand, India	
Α	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)		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 extention

■ Wall mount kit accessories

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