

## ICR-W401



### 4G LTE, GPS, 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 Size
- » EN62368-1, CE, RED and NCC Certified



The industrial grade 4G LTE router ICR-W401 is a compact, lightweight and cost-effective product 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

<b>Standard</b>	IEEE 802.3	10Base-T 10Mbit/s Ethernet
	IEEE 802.3u	100Base-TX Fast Ethernet
	IEEE 802.1Q	1000Base-T Gbit/s Ethernet over twisted pair
	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
<b>LTE Interface</b>	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 (Download), 50Mbps (upload)	
	1x micro SIM Connector (push-push type)	
<b>WiFi Interface</b>	IEEE 802.11b/g/n WiFi Standards	
	Supports AP or Station mode	
	2x RP-SMA for WiFi Antenna	
	2T2R 300Mbps wireless operation rate	
	2.4GHz radio for wireless	

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<b>Hardware Interface</b>	1x Micro SIM Connector (push-push type) 1x LAN 10/100 Mbps Ethernet port 1x WAN 10/100 Mbps Ethernet port Reset Button for device reset 1x RS232 for console configuration (TXD/RXD/GND) 1x DI (Non-Isolated), 1x DO (Non-Isolated) 2x SMA connectors for detachable LTE Antenna 2x RP-SMA for WiFi Antenna 1x GPS detachable Antenna
<b>Housing</b>	Rugged metal, Fanless, IP30 protection
<b>Dimensions</b>	75 x 92 x 30mm (D x W x H)
<b>Weight</b>	400g
<b>Installation</b>	DIN Rail mounting or wall mounting (optional)
<b>LED Display</b>	1x Power LED 2x Ethernet LED for each port (LAN/WAN) 1x LTE LED 1x Function LED (User define by Web)
<b>Power Supply</b>	Power Consumption: 7 Watt(Max) Power Input: TB: 12/24/48VDC (9.6~60VDC), DC JACK: 12VDC (12V 1A)
<b>Operating Temperature</b>	-30 ~ 70°C
<b>Storage Temperature</b>	-40 ~ 85°C
<b>Operating Humidity</b>	10 ~ 95% (non-condensing)
<b>MTBF</b>	271,952 Hours (MIL-HDBK-217)
<b>Warranty</b>	5 Years
<b>Certification</b>	
<b>EMC</b>	CE (EN55032, EN55035)
<b>Radio</b>	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
<b>Safety</b>	EN62368-1
<b>Shock</b>	IEC 60068-2-27
<b>Freefall</b>	IEC 60068-2-32
<b>Vibration</b>	IEC 60068-2-6
<b>EMC</b>	CE (EN55032, EN55035)
<b>EMI (Electromagnetic Interference)</b>	FCC Part 15 Subpart B Class A,CE
<b>EMS (Electromagnetic Susceptibility) Protection Level</b>	EN61000-4-2 (ESD) Level 3, Criteria B EN61000-4-3 (RS) Level 3, Criteria A EN61000-4-4 (Burst) Level 3, Criteria A EN61000-4-5 (Surge) Level 3, Criteria B EN61000-4-6 (CS) Level 3, Criteria A EN61000-4-8 (PFMF, Magnetic Field) Field Strength: 300A/m, Criteria A
<b>Shock</b>	IEC 60068-2-27
<b>Freefall</b>	IEC 60068-2-31
<b>Vibration</b>	IEC 60068-2-6

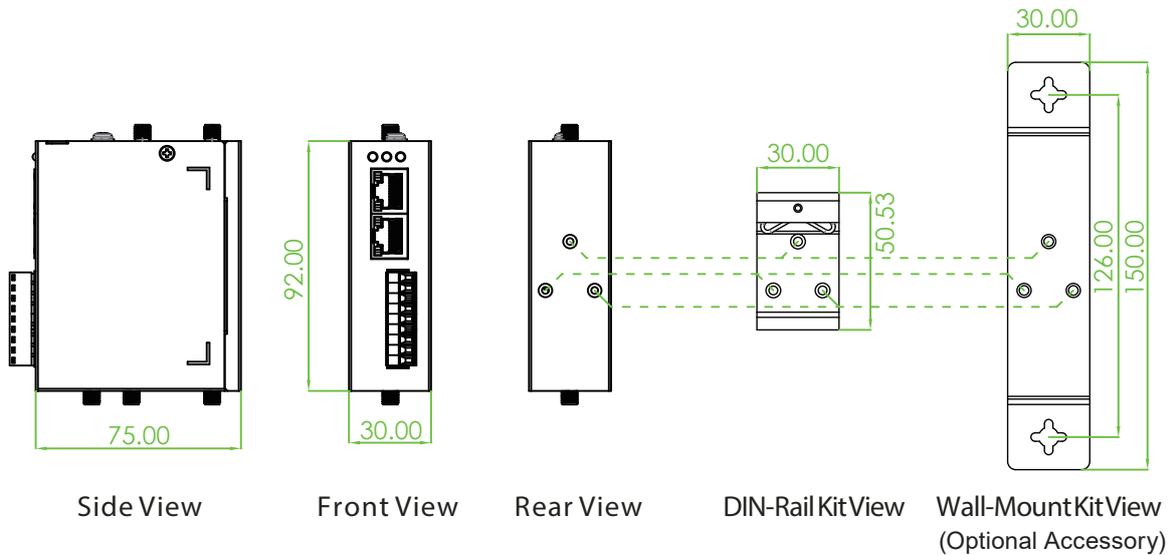
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## Software Specifications

<b>Network Protocols</b>	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
<b>Routing/Firewall</b>	NAT, Virtual Server, DMZ, MAC Filter, URL Filter, IP Filter, VLAN, Static Routing, RIP 1, RIP 2, IPS, Policy Route
<b>VPN</b>	OpenVPN, IPSec (3DES, AES128, AES196, AES256, MD5, SHA-1, SHA256), GRE, PPTP, L2TP
<b>WiFi</b>	Security with WPA2-PSK (AES) Multiple SSID Wireless Mac Filtering Wireless client isolation Wireless Connectivity: WAN WiFi Client
<b>Others</b>	DDNS, QoS, UPnP, SMS action, GPS track Drawing, GPS TCP Push
<b>Alarm</b>	DI, DO, SMS, VPN/WAN Disconnect, SNMP Trap, Email, TR069
<b>Management</b>	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

## Dimensions



## Ordering Information

Model Name	Managed	WAN		LAN			Certification				
		Cellular Mobile Band	10/100 Base-TX	WiFi IEEE 802.11 b/g/n	10/100 Base-TX	DI/DO	EN62368-1	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-TW	V	see Region code table-TW	1	1	1	1	V	V	V	V	V

## Region Code Table

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
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

### ■ Wall Mount Kit

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

### ■ Antenna Accessories

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



ANT-BASE-01

### ■ Industrial Power Supply

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