11 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

101 11

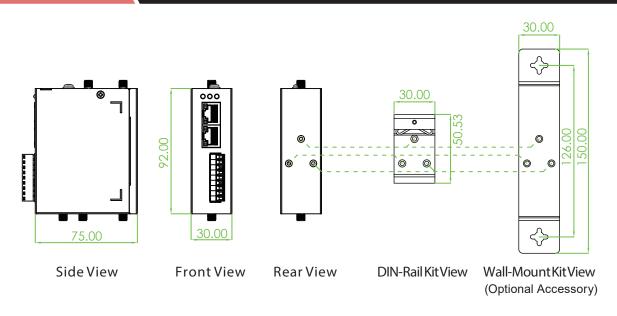
- Highly reliable and secure for mission-critical cellular communications
- Compact and lightweight design with 1 LAN and 1 WAN Ethernet interfaces
- Supports multi-band connectivity with FDD LTE/ TDD LTE/ WCDMA/ GSM/ LTE Cat 4
- Provides IEEE 802.11b/g/n WiFi 2T2R
- Micro SIM connector and DI/DO interfaces
- 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	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				
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 (Download), 50Mbps (upload) 1x micro SIM Connector (push-push type)					
WiFi Interface	EEE 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						

Hardware Interface Millor SIM Commenting (push-sush type)		TO COMPANY
New Note 100 Maps Ethernet port	Hardware Interface	1x Micro SIM Connector (push-push type)
Reset Button for doxon cost		1x LAN 10/100 Mbps Ethernet port
1x HS222 for consider configuration (HXDHANDRIN) 1x Of Mon-Solated) 1x OD (Non-Solated) 2x SNA connectors of destandable in F. Antenna 2x FP SNA for the H. Antenna 2x FP SNA for the H. Antenna 2x FP SNA for the H. Antenna 3x GP destandable Antenna 4x GP destandable Antenna 5x GP destandable Antenna		1x WAN 10/100 Mbps Ethernet port
Tx DI (Non-Bolasco), Tx DO (Non-Isolated) 2x SNAx connection for data-relation Tx Anterna 2x SPS-SNA for VMP Anterna 1x GPS detarlation Anterna Nousing Hougad motal, Faniss, IR30 protection		Reset Button for device reset
2 SMA correctors for detaclable LTE Antenna 2x RP-SMA for WRT Arterna 1		1x RS232 for console configuration (TXD/RXD/GND)
2x RP SMA for Wiff Antonna 1x GPS detachable Antonna		1x DI (Non-Isolated), 1x DO (Non-Isolated)
No.		2x SMA connectors for detachable LTE Antenna
Housing Dimensions 75 x 9 x 30mm (D x W x H) Hough		2x RP-SMA for WiFi Antenna
Dimensions		1x GPS detachable Antenna
Dimensions	Housing	Rugged metal, Fanless, IP30 protection
Installation DN Hall mounting or well mounting (optional)	Dimensions	
Installation DIN Pall mounting or wall mounting (optional) 1x Power LED 1x Power LED 1x Power LED 1x Power LED 1x Function LED (User define by Web)		· · · · · · · · · · · · · · · · · · ·
Now ED 2x Elbernet LED for each port (LAN/WAN)		0
2x Ethernet LED for each port (LAN/WAN) Tx LE LED Tx Function LED (User define by Web) Power Supply Power Consumption: 7 WettijMax Power Input: Tis: 12/24/48/VDC (9.6-60VDC), DC JACK: 12VDC (12V 1A) Operating Temperature 30 ~ 70°C Storage Temperature 40 ~ 85°C Operating Humidity Marrardy Warrardy Stears Warrardy Stears Certification EMC	LED Display	
Tx LTE LED Tx Function LED (User define by Web)		
Tyunction LED (User define by Web) Power Suppley Power Consumption: 7 Walt (Max) Power Imput: This 12/24/48/DC (9.6—60VDC), DC JACK: 12VDC (12V 1A) Operating Temperature		
Power Consumption: 7 Watti,Max Power Input: Th: 12/24/48/DIC (9.6-60VDIC); DC JACK: 12VDIC (12V 1A) Power Input: Th: 12/24/48/DIC (9.6-60VDIC); DC JACK: 12VDIC (12V 1A) Operating Temperature		
Power Imput: TB: 12/24/48VDC (9.6~60VDC), DC JACK: 12VDC (12V 1A) Operating Temperature 30.0 - 70°C Storage Temperature 40.0 - 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) EN86311 RED ETSI EN301 489-17 RED ETSI EN301 489-19 RED ETSI EN301 489-19 RED ETSI EN301 511 RED ETSI EN301 908-12 RED ETSI EN301 908-12 RED ETSI EN301 908-13 RED ETSI EN301 908-13 RED ETSI EN303 328 RED ETSI EN303 328 RED ETSI EN303 328 RED ETSI EN303 413 EM6088-2-27 Freefall EC 60088-2-6 EMS (Electromagnetic Interference) Susceptibility Protection Level EMS (Electromagnetic Susceptibility Protection Level Electromagnetic Susceptibility Protection Level EMS (Electromagnetic Susceptibility Protection Level Electromagnetic Susceptibility Protection Level Electromagnetic Susceptibility Protection Level Electromagnetic Susceptibility Ele	Power Supply	· · · · · · · · · · · · · · · · · · ·
Storage Temperature		
Storage Temperature 4.0 ~ 85°C Operating Humidity 10 ~ 95% (non-condensing) Warranty 5 years Certification EMC CE (EN55032, EN55035) Radio NCC ((CR-W401-TW) EN62311 RED ETSI EN301 489-1 RED ETSI EN301 489-17 RED ETSI EN301 489-19 RED ETSI EN301 489-19 RED ETSI EN301 489-19 RED ETSI EN301 489-19 RED ETSI EN301 908-1 RED ETSI EN301 908-1 RED ETSI EN301 908-1 RED ETSI EN301 908-1 RED ETSI EN303 908-1 RED ETSI EN303 908-1 RED ETSI EN303 908-2 RED ETSI EN303 908-1 RED ETSI EN303 908-1 RED ETSI EN303 908-2 RED ETSI EN303 908-2 RED ETSI EN303 908-2 RED ETSI EN303 908-1 RED ETSI EN303 489-1 RED ETSI EN303 489-1 RED ETSI EN301	Operating Temperature	
Operating Humidity 10 – 95% (non-condensing) MTEF 271,952 Hours (MIL+HDBK-217) Warranty 5 Years Certification CE (EN55032, EN55035) Radio NCC (CR-W401-TW) ENE2311 RED ETSI EN301 489-1 RED ETSI EN301 489-1 RED ETSI EN301 489-19 RED ETSI EN301 489-99 RED ETSI EN301 511 RED ETSI EN301 908-1 RED ETSI EN301 908-1 RED ETSI EN301 908-13 RED ETSI EN303 413 Safety EN62088-1 Shock IEC 60068-2-32 Vibration IEC 60068-2-36 EMI (Electromagnetic Interference) CE (EN55032, EN55035) Susceptibility Protection Level PN61000-4-2 (ESD) Level 3, Criteria B Susceptibility Protection Level EN61000-4-5 (Surge) Level 3, Criteria A EN61000-4-6 (CS) Level 3, Criteria B EN61000-4-6 (CS) Level 3, Criteria B EN61000-4-7 (Feetall EC 60068-2-31		
Marranty Syears		
Sertification		· · · · · · · · · · · · · · · · · · ·
CE (EN55032, EN55035) NCC (ICR-W401-TW)		
Relation NCC (ICR-W401-TW)	-	5 16015
Radio EN62311 ED6211 EN62311 RED ETSI EN301 489-1 RED ETSI EN301 489-17 RED ETSI EN301 489-19 RED ETSI EN301 489-52 RED ETSI EN301 908-1 RED ETSI EN303 3413 RED ETSI EN303 3413 RED ETSI EN303 413 RED		OF (FNEEDOO FNEEDOE)
EN62311 RED ETSI EN301 489-1 RED ETSI EN301 489-19 RED ETSI EN301 489-52 RED ETSI EN301 489-52 RED ETSI EN301 908-1 RED ETSI EN301 908-13 RED ETSI EN300 328 RED ETSI EN300 328 RED ETSI EN303 413 RED ETSI EN300 328 RED ETSI EN303 413 RED ETSI EN300 328 RED ETSI EN300 328 RED ETSI EN300 328 RED ETSI EN300 328 RED ETSI EN300 413 RED ETSI EN300 428 RED ETSI EN301 908-13 RED ETSI EN301 489-52 RED ETSI EN301 498-52 RED		
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 EN303 413 RED ETSI EN300 328 RED ETSI EN300 328 RED ETSI EN300 328 RED ETSI EN300 413 RED ETSI EN301 489-19 RED ETSI EN301 498-13 RED ETSI	naulo	·
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 908-2 RED ETSI EN301 908-13 RED ETSI EN303 328 RED ETSI EN303 328 RED ETSI EN303 413 RED ETSI EN301 413 RED ETSI E		
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 908-2 RED ETSI EN301 908-13 RED ETSI EN301 328 RED ETSI EN303 328 RED ETSI EN303 3413 RED ETSI EN303 3413 RED ETSI EN303 413 RED ETSI EN303 413 RED ETSI EN303 5413 RED ETSI EN303 68-1 RED ETSI EN301 908-1 RED ETSI EN301 90		
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 EN301 908-13 RED ETSI EN303 413 RED ETSI EN301 908-1		
RED ETSI EN301 501 1 RED ETSI EN301 908-1 RED ETSI EN301 908-2 RED ETSI EN301 908-13 RED ETSI EN300 328 RED ETSI EN300 3413 RED ETSI EN300 328 RED ETSI EN300 908-2 RED ETSI EN300 908-2 RED ETSI EN300 908-2 RED ETSI EN301 908-2 RED ETSI EN30		
RED ETSI EN301 908-1 RED ETSI EN301 908-2 RED ETSI EN300 328 RED ETSI EN300 328 RED ETSI EN303 3413 RED ETSI EN303 4413 RED ETSI EN303 4413 RED ETSI EN303 4413 RED ETSI EN303 4413 RED ETSI EN300 328 RED ETSI EN300 4413 RED ETSI EN300 4415 RE		
RED ETSI EN301 908-2 RED ETSI EN301 908-13 RED ETSI EN300 328 RED ETSI EN303 413 Safety EN62368-1 Shock EC 60068-2-27 Freefall EC 60068-2-32 Vibration EC (EN55032, EN55035) EMI (Electromagnetic Interference) FCC Part 15 Subpart B Class A,CE (Electromagnetic Susceptibility) EN61000-4-2 (ESD) Level 3, Criteria B FN61000-4-3 (RS) Level 3, Criteria A EN61000-4-4 (Burst) Level 3, Criteria A EN61000-4-5 (Surge) Level 3, Criteria A EN61000-4-8 (PFMF, Magnetic Field) Field Strength: 300A/m, Criteria A Shock EC 60068-2-27 Freefall EC 60068-2-31		
RED ETSI EN301 908-13 RED ETSI EN300 328 RED ETSI EN303 413 RED ETSI EN300 328 RED ETSI EN300 429 RED ETSI EN300 328 RED ETSI EN300 413 RED ETSI EN300 41		
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 EMI (Electromagnetic Interference) Fubrace		
Safety EN62368-1 Shock EC 60068-2-27 Freefall EC 60068-2-32 Vibration EC 60068-2-6 EMI (Electromagnetic Interference) FCC Part 15 Subpart B Class A,CE EMI (Electromagnetic Susceptibility) Protection Level 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 B EN61000-4-8 (PFMF, Magnetic Field) Field Strength: 300A/m, Criteria A Shock EC 60068-2-27 Freefall EC 60068-2-31		
Safety EN62368-1 Shock IEC 60068-2-27 Freefall IEC 60068-2-32 Vibration IEC 60068-2-6 EMI (Electromagnetic Interference) FCC Part 15 Subpart B Class A,CE EMI (Electromagnetic Susceptibility) EN61000-4-2 (ESD) Level 3, Criteria B FN61000-4-3 (RS) Level 3, Criteria A EN61000-4-4 (Burst) Level 3, Criteria A EN61000-4-5 (Surge) Level 3, Criteria B EN61000-4-5 (Surge) Level 3, Criteria B EN61000-4-8 (PFMF, Magnetic Field) Field Strength: 300A/m, Criteria A Shock IEC 60068-2-27 Freefall IEC 60068-2-31		
Shock IEC 60068-2-27 Freefall IEC 60068-2-32 Vibration IEC 60068-2-6 EMC CE (EN55032, EN55035) EMI (Electromagnetic Interference) FCC Part 15 Subpart B Class A,CE EMS (Electromagnetic Susceptibility) EN61000-4-2 (ESD) Level 3, Criteria B Protection Level EN61000-4-3 (RS) Level 3, Criteria A EN61000-4-4 (Burst) Level 3, Criteria A EN61000-4-5 (Surge) Level 3, Criteria B EN61000-4-8 (PFMF, Magnetic Field) Field Strength: 300A/m, Criteria A Shock IEC 60068-2-27 Freefall IEC 60068-2-31	Safety	
Freefall IEC 60068-2-32 Vibration IEC 60068-2-6 EMC CE (EN55032, EN55035) EMI (Electromagnetic Interference) FCC Part 15 Subpart B Class A,CE EMS (Electromagnetic Susceptibility) 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 Shock IEC 60068-2-27 Freefall IEC 60068-2-31		
Vibration IEC 60068-2-6 EMC CE (EN55032, EN55035) EMI (Electromagnetic Interference) FCC Part 15 Subpart B Class A,CE EMS (Electromagnetic Susceptibility) 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 Shock IEC 60068-2-27 Freefall IEC 60068-2-31		
EMI (Electromagnetic Interference) EMS (Electromagnetic Susceptibility) Protection Level EN61000-4-2 (ESD) Level 3, Criteria A EN61000-4-5 (Surge) Level 3, Criteria A EN61000-4-5 (Surge) Level 3, Criteria B EN61000-4-6 (CS) Level 3, Criteria B EN61000-4-6 (CS) Level 3, Criteria A EN61000-4-8 (PFMF, Magnetic Field) Field Strength: 300A/m, Criteria A EN61000-4-8 (PFMF, Magnetic Field) Field Strength: 300A/m, Criteria A EC 60068-2-27 Freefall EC 60068-2-31		
EMI (Electromagnetic Interference) EMS (Electromagnetic Susceptibility) Protection Level 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 B EN61000-4-8 (PFMF, Magnetic Field) Field Strength: 300A/m, Criteria A EN61000-4-8 (PFMF, Magnetic Field) Field Strength: 300A/m, Criteria A ECC 60068-2-27 ECC Part 15 Subpart B Class A,CE EN61000-4-2 (ESD) Level 3, Criteria B EN61000-4-3 (RS) Level 3, Criteria A EN61000-4-5 (Surge) Level 3, Criteria B EN61000-4-5 (CS) Level 3, Criteria A EN61000-4-6 (CS) Level 3, Criteria A EN61000-4-8 (PFMF, Magnetic Field) Field Strength: 300A/m, Criteria A EN61000-4-8 (PFMF, Magnetic Field) Field Strength: 300A/m, Criteria A		
EMS (Electromagnetic Susceptibility) Protection Level EN61000-4-2 (ESD) Level 3, Criteria B	EMI (Electromagnetic	
(Electromagnetic Susceptibility) 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 Shock IEC 60068-2-27 Freefall IEC 60068-2-31		
Protection Level 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 Shock IEC 60068-2-27 Freefall IEC 60068-2-31	(Electromagnetic	
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 Shock IEC 60068-2-27 Freefall IEC 60068-2-31	Susceptibility)	, , ,
EN61000-4-6 (CS) Level 3, Criteria A EN61000-4-8 (PFMF, Magnetic Field) Field Strength: 300A/m, Criteria A Shock IEC 60068-2-27 Freefall IEC 60068-2-31	Protection Level	
EN61000-4-8 (PFMF, Magnetic Field) Field Strength: 300A/m, Criteria A Shock IEC 60068-2-27 Freefall IEC 60068-2-31		
Shock IEC 60068-2-27 Freefall IEC 60068-2-31		
Freefall IEC 60068-2-31	Charle	
VIDIALION IEU 60068-2-6		
	nolibration	IEU 0UU0δ-2-0

Software Specific	cations \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
Network Protocols	IPv4, IPv6, IPv4/IPv6 dual stack, DHCP server and client, PPPoE, Static IP, SNTP, GPS sync time, DNS Proxy, VRRF 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, IPS, Policy Route			
VPN	OpenVPN, IPSec (3DES, AES128, AES196, AES256, MD5, SHA-1, SHA256), GRE, PPTP, L2TP			
WiFi	Security with WPA2-PSK (AES)			
	Multiple SSID			
	Wireless Mac Filtering			
	Wireless client isolation			
	Wireless Connectivity: WAN WiFi Client			
Others	DDNS, QoS, UPnP, SMS action, GPS track Drawing, GPS TCP Push			
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			

Dimensions



Ordering Information											
		WAN		LAN			Certification				
Model Name	Managed	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

	4G LTE		3G	2G	Dogion	
Region Code	FDD LTE	FDD LTE TDD LTE		GSM / EDGE	Region	
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



■ Industrial Power Supply

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