

# ICR111WG-11 Industrial 4G LTE Cellular Router

## Introduction



**ICR111WG-11**

**ADVICE ICR111WG-11**, compact, lightweight and cost-effective **Industrial 4G LTE Cellular Routers**, are built in 2-port fast Ethernet connection as well as support 2G/3G/4G mobile networks for wired and wireless communication in harsh environments. Equipped with RS232 serial port and digital input/output interfaces, the **ICR111WG-11** are simple to configure and collect real-time data transmission quickly for Industrial IoT and machine-to-machine applications. The **ICR111WG-11** is also compliant with IEEE 802.11b/g/n Wi-Fi connectivity.

Featuring VPN Tunnels, Firewall, TR069, and SNMP Trap, **ADVICE ICR111WG-11 Industrial 4G LTE Cellular Routers** enhance highly secure authentication, encryption and management to protect your data efficiently between public and private networking. Supporting -40~+75°C wide-temperature operation and flexible input voltage range of 8-48VDC for diverse environments and various applications.

**ADVICE ICR111WG-11 Industrial 4G LTE Cellular Routers** are suitable and reliable choices for fast deployment and easy configuration to simplify your complicated solutions and fit your services for industrial networking and smart city.

## Features

- Highly reliable and secure for mission-critical cellular communications
- Compact and lightweight design with 2-port Ethernet interfaces
- Support multi-band connectivity with FDD LTE/ TDD LTE/ WCDMA/ GSM/ LTE Cat 4
- Provide IEEE 802.11b/g/n Wi-Fi standards (ICR-W211G-11 Model)
- Built-in micro SIM connector, RS232 serial port, and DI/DO interfaces
- Integrated detachable antenna against radio interference
- LED indicators for connection and data transmission status
- Industrial rated from -40 to +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

### Cellular Interface

- Standards:
  - 4G: FDD LTE, TDD LTE
  - 3G: WCDMA
  - 2G: GSM/EDGE
- LTE Data Rate: Cat 4, 150Mbps (DL), 50Mbps (UL)

### Wi-Fi Interface

- Compliant with IEEE 802.11 b/g/n Wi-Fi standards
- 2.4 GHz radio band for wireless
- 2T2R 300 Mbps wireless operation rate
- Wireless security with WPA-PSK, WPA2-PSK support
- Multiple SSIDs
- Wireless MAC Filtering
- Wireless client isolation

### Hardware Interface

- High Performance 550 MHz SoC with 128MByte Flash
- 1 x Micro SIM Connector (push-push type)
- 1 x LAN 10/100 Mbps Ethernet port
- 1 x WAN 10/100 Mbps Ethernet port
- WPS / RESET Button
- 1 x RS232 (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 connectors for detachable Wi-Fi Antenna
- 1 x SMA connector for detachable GPS antenna

### Physical Characteristics

- Enclosure : Metal Case
- Dimensions (W x H x D) : 28mm x 91mm x 74mm
- Weight : 25 g (0.5512 lb)
- Installation : DIN Rail (Default) / Wall Mount (Optional)

### LED Display

- 1 x Power LED
- 1 x Ethernet LED for each port (LAN/WAN)
- 1 x RSSI LTE LED
- 1 x Function LED (User define by Web)

### Power Supply

- Power Consumption 7 Watts(Max)
- Power Input 8 ~ 48VDC

### Software

- **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 and RIP-1/2
- **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, E-mail, TR069

### Management Software

- 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

### Environment

- Operating Temperature -40 ~ +75°C
- Storage Temperature -40 ~ +85°C
- Ambient Relative Humidity 10 ~ 95% (non-condensing)
- Humidity 0 ~ 95% (non-condensing)

### Standards and Certifications

- **EMC** : CE, FCC
- **EMI** : EN 55032 Class A, FCC Part 15 Subpart B Class A
- **EMS** : EN 55024
- **Vibration** : IEC60068-2-6