

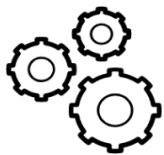


## Industrial 5G Router

### IR2000 Series

#### Introduction

IR2000 is 5G-capable router supporting global 5G, 4G and 3G bands in a compact industrial form factor. It enables rapid deployment of high-speed IoT applications in verticals as diverse as Transportation, Enterprise Connectivity and Digital Signage. The IR2000 leverages the tried-and-tested high performance CPU platform and SmartlinkOS-mature and stable Operating System developed in-house by Chilink.



#### Industrial-grade Design

- ▶ High performance industrial-grade wireless communication module
- ▶ High performance industrial grade 32-bit MIPS processor
- ▶ Use plate metal CRS shell, heat dissipation is good
- ▶ Low power consumption and low heat generation
- ▶ Support Desktop or Wall mount installation
- ▶ Wide power input range: 7.5V~32V DC



#### Stability&Reliability

- ▶ Hardware and Software WDT design
- ▶ Built-in 1.5KV electromagnetic isolation protection for Ethernet interface
- ▶ Always keep online, reboot automatically if disconnected to ensure continual connection



#### Cloud platform remote management

- ▶ Remote online monitoring
- ▶ Parameter configuration
- ▶ Equipment upgrade or reboot
- ▶ log query, parameter backup



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## High Performance

- ▶ Failover, Backup and Load balance between WAN and Cellular network
- ▶ Multiple WAN connection methods, include Static IP/DHCP/PPPOE
- ▶ Support VPN client: PPTP, L2TP, IPSec, OPENVPN, N2N, GRE
- ▶ Support DHCP, DDNS, Firewall, NAT, and DMZ host
- ▶ Support ICMP, TCP/IP, UDP, Telnet, SSH, FTP, HTTP, HTTPS network protocol
- ▶ Support scheduled reboot
- ▶ Support QOS, UPnP protocol, Port forwarding, UDP broadcast relay
- ▶ Serial port offer Data Transfer Unit(DTU) function
- ▶ Support APN and VPDN private network access
- ▶ WIFI Support 802.11b/g/n. Support AP/Client/Routing/Repeat Mode
- ▶ Support Modbus TCP & Modbus RTU and SNMP industry protocol

## Product Specification

### cellular Parameter

|                       |  |
|-----------------------|--|
| Module                | Industrial-grade module  |
| Frequency             | 5G NR: n1/n2/n3/n5/n7/n8/n20/n28/n41/n66/n71/n77/n78/n79<br>LTE:B1/B2/B3/B4(66)/B5(18/19/26)/B7/B8/B12(17)/B13/B14/B20/B25<br>/B26/B28/B29/B30/B38/B39/B40/B41/B42/B43/ B46/ B48/B71 |
| Theoretical Bandwidth | 5G NR: DL 3.4Gbps, UL 350Mbps<br>LTE Cat20: DL 2.0Gbps, UL 150Mbps<br>HSPA+: DL 42Mbps, UL 5.76Mbps  |
| Transmit Power        | <23dBm   |
| Receiving Sensitivity | <-109dBm   |

### Hardware

|        |  |
|--------|--|
| CPU    | Industrial-grade 32-bit MIPS processor, 880Mhz |
| Memory | 16MB Flash, 256MB DDR3 RAM                     |



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## Interfaces

|              |   |
|--------------|---|
| WAN          | 1 x 1000M Eth M12 port, auto adapt MDI/MDIX, built in 1.5KV ESD                                   |
| LAN          | 1x 1000M Eth M12 port, auto adapt MDI/MDIX, built in 1.5KV ESD                                    |
| Indicators   | "S2", "S1", "M", "P", signal strength   |
| Antenna      | Cellular: 4 x SMA female, characteristic impedance 50 ohms  |
| SIM/UIM      | Standard drawer type(2 x SIM slot), 1.8V/3V SIM/UIM, 15KV ESD protection                          |
| Power        | Standard 3.5mm terminal block interface, with built-in phase-reversal and over-voltage protection |
| Reset Button | Restore the router's parameter configuration to factory values                                    |

## Power Supply

|             |            |
|-------------|------------|
| Standard    | DC12V/1.5A |
| Range       | 7.5V-32V   |
| Consumption | 2.3W       |

## Physical Characteristics

|            |  |
|------------|--|
| Housing    | Metal IP30   |
| Dimensions | 98×64.5×24.5mm   |
| Weight     | About 350g((Does not include antenna and mounting parts) |
| Mounting   | Desktop or wall mounting                                 |

## Environmental

|                       |                             |
|-----------------------|-----------------------------|
| Operating Temperature | -30~+75°C                   |
| Storage Temperature   | -40~+85°C                   |
| Relative Humidity     | 0% to 95% (No condensation) |



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