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Communication Expert
of Industrial IOT

# Mini Cellular Router

## USR-DR185




## Introduction

The USR-DR185 is PUSR's latest LTE Cat.1 cellular router. It features a Quectel cellular module and supports mainstream 4G frequency bands worldwide for broad compatibility. The router comes standard with two Ethernet ports (1 × WAN/LAN + 1 × LAN) to provide network connectivity for end devices.

On the software side, it supports multiple VPN protocols (including OpenVPN, IPsec, and GRE), a configurable firewall, and DDoS protection against SYN floods, SSH attacks, and HTTP attacks.

Furthermore, the device runs on the open-source OpenWrt operating system, offering a stable platform for custom application development and integration.

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

# Product Features

## Hardware

- Metal casing with IP30 protection
- Quectel cellular module, supports mainstream frequency bands around the world, and supports single IPv6/single IPv4/IPv4v6 type SIM cards
- Industrial-grade design for extreme temperatures (-25℃ to +75℃)
- Flexible installation installation, DIN-rail 35mm mounting and wall mounting
- Equipped with XH2.54 connection terminals and self-locking mechanism for stable power supply
- 2 Ethernet port, 1 x WAN/LAN and 1 x LAN port
- 1 Type-C interface for debugging
- 1 SMA female connector for 4G antenna

## Software

- Supports remote monitoring, upgrade and parameter configuration, remote access to the built-in web pages.
- Supports IPsec VPN, PPTP,L2TP, OPENVPN,GRE etc., ensuring secure data transmission.
- Supports firewall, NAT,DMZ,black and white list of access control.
- Supports DDNS,PPPOE,DHCP,Static IP.
- Supports multiple DDoD protections including SYN protection, SSH protection, and HTTP protection and ping protection.
- User-friendly configuration web

# Dimensions

Unit: mm




Figure 1 **Dimension of USR-DR185s-G**

# Specifications

| Catalog | Parameters | Value |
|---|---|---|
| Power Supply | Power Input | DC 5V/2A input (DC 4.75V - 5.25V) |

| | | |
|---|---|---|
| | Working Current | 241ma@5V |
| | Connector | XH2.54 connector |
| Cellular | Band(Global) | TDD-LTE: Band 34/38/39/40/41<br>FDD-LTE: Band 1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/66/71 |
| | Antenna | External rod antenna with 2dBi gain (Max) |
| | SIM slot | 1 x Micro SIM (3FF) |
| Ethernet Port | WAN port | 1× RJ45 port (10/100Mbps, auto MDI/MDIX), can be configured as a LAN |
| | LAN port | 1× RJ45 port (10/100Mbps, auto MDI/MDIX) |
| Other Interface | Indicators | PWR, SYS, NET |
| | Reload Button | Press for 3-15s to restore factory settings |
| | Type-C | Debugging interface for troubleshooting |
| Physical Parameters | Casing material | Metal housing, IP30 rated |
| | Dimension | 79 x 66 x 22 mm |
| | Installation | DIN rail mounting, wall mounting |
| | Operating Temperature | -25°C to +75°C |
| | Storage Temperature | -40°C to +85°C (non-condensing) |
| | Operating Humidity | 5%-95% (non-condensing) |
| Software | Protocol | TCP, UDP, IPv4, IPv6, ICMP, NTP, DNS, HTTP, HTTPS, SFTP, FTP, SMTP, SSL/TLS, ARP, PPPoE, SSH, DHCP, Telnet |
| | DDoS protection | SYN, SSH, HTTP, HTTPS, PING protections |
| | VPN | OpenVPN, IPsec, GRE, PPTP, L2TP |
| | Setup | User-freindly |

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