ReadyNet SOLUTIONS™

PR12
4G VoIP ATA With Built-In Battery

The PR12 4G-LTE Router is the definitive all-in-one solution for businesses looking to replace costly, aging POTS lines. Equipped with a high-performance CAT-4 LTE module and dual FXS ports, the PR12 allows you to transition your legacy PSTN hardware to a modern VoIP system without the need for expensive equipment overhauls.

Designed for mission-critical reliability, the PR12 features a low-power architecture and an integrated battery backup to ensure 24/7 uptime during power outages. With dual SIM slots for automatic carrier failover and dedicated LAN ports for high-speed management, the PR12 keeps your communication lines open when you need them most.

Broad System Compatibility

The PR12 is engineered for seamless integration with fax machines, analog phones, modems, and alarm systems. With robust support for Contact ID, T.37/T.38, and V.150.1 protocols, you can easily transition legacy PSTN-dependent hardware to a modern IP-based infrastructure without losing functionality.

Reliable Dual-SIM Redundancy

Featuring an integrated CAT-4 LTE module, the PR12 is designed for mission-critical applications. Dual SIM slots provide automatic failover protection; if the primary connection fails, the device instantly switches to the backup SIM to maintain network links and communication accounts, ensuring stable, "always-on" connectivity.

24-Hour Uninterrupted Connectivity

Equipped with an internal battery backup, the PR12 maintains normal operations even during total power failures. This integrated power solution supports up to 24 hours of standby time, guaranteeing that your vital communication lines remain active when the grid goes down.

Versatile Interface Options

The PR12 offers comprehensive connectivity, including dual Gigabit Ethernet ports, dual FXS ports, and a UART serial port to suit diverse deployment scenarios. Standard SMA connectors allow for easy antenna upgrades, ensuring optimal signal strength and high-speed LTE performance in any environment.

- **CAT-4 LTE Module**
- **Dual SIM Slots**
- **Dual Gigabit Ethernet Ports**
- **Dual FXS Po**
- **UART Serial Port**
- **Dual SMA Antenna Connectors**
- **USB-C Port**
- **PoE Input Support**
- **24-Hour Internal Battery**
- **Battery Management System**
- **Rugged Aluminum Housing**
- **VoIP and VoLTE Support**
- **T.37 and T.38 Fax Support**
- **Contact ID Support**
- **V.150.1 Modem Support**

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Hardware Specifications

Case	> Aluminum alloy
Ethernet Port	> 2 * RJ45, 10/100/1000Mbps (LAN)
FXS Port	> 2 * RJ11
Power Port	> 1 * 12V DC 4-Pin (With Ignition Sensing) > 1 * PoE port (Eth0, IEEE 802.3af)
UART Serial Port	> 1（TXD、RXD、GND、3.3V)
SMA Port	> 2
USB Port	> 1 * USB Type-C
Indicators	> 7（1 * 4G, 2 * FXS, 2 * Eth, 1 * PWR, 1 * BAT)
Dimensions	> 156.7 * 116.5 * 31.5 mm　(L * W * H)
Weight	> 800g
Operating Environment	> Operating temperature: -10°C ~ 50°C (High/Low temperature will lead to shorter battery life) > Storage temperature: -20°C ~ 70°C (High/Low temperature will lead to shorter battery life) > Relative humidity: 10% ~ 90% (no condensation)
Battery	> Capacity: 3500mAh > Over-charge Protection/Over-discharge Protection/Temperature Monitoring

LTE Specifications

VoLTE Call	> Supported (FXS 1 only)
LTE Module	> LTE-CAT4
LTE Bands	> LTE-FDD: B2/4/5/12/13/14/66/71 > WCDMA: B2/4/5
Network Speed	> LTE-FDD: Max. 150 (DL)/ Max. 50 (UL) > LTE-TDD: Max. 130 (DL)/ Max. 30 (UL)

Protocols

Protocols	> SDP (RFC2327) > RTP/RTCP(RFC1889/RFC1890) > NAPTP for SIPURI check (RFC2915) > STUN(RFC3489) > ARP/RARP(RFC826/903) > IP Passthrough / NAT > NTP/SNTP(RFC8030) > TFTP/HTTP/HTTPS auto configuration > DNS/DNSSRV(RFC1706/RFC2782)

Voice	
Call Features	> 3-way conference > Call hold > Call transfer > Call forward > Call waiting > Hotline > Caller ID > Anonymous call > Dial plan > Blacklist > DND > CID/CWCID/CPC > Call logs > DTMF mode: In-band, RFC2833, SIP-INFO
Communication Protocols	> Contact ID: Relay & Transmitter > FAX: T.30/T.37/T.38 > Modem: V150.1 > SIP V2.0(RFC3261)
POTS Lines	> Up to 3 REN Line Load > 55 Vrms Ring Voltage > 500ft Loop Length Support
Management and Application	
Management	> Firmware update > Network management Interface > Local and Remote system logs (RFC3164) > Automatic configuration > SNTP time sync > Multiple user level > Telnet > TR069 (TR069, TR104)
Application	> NAT/NAPT router function > MAC address clone > Built-in NAT line router > DHCP server / client > Firewall