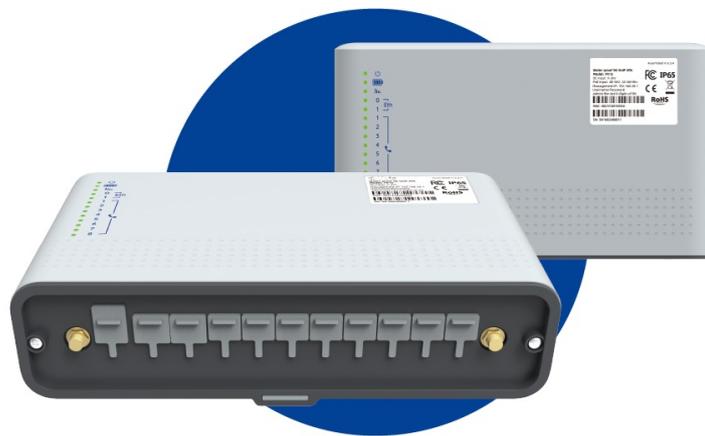# PR18 5G ATA Gateway

All-in-one POTS Replacement Device

Vola PR18 is 8 FXS ATA gateway that provide all-in-one solution for POTS Replacement. With its built-in 5G Redcap module and full-features FXS ports, you can easily convert your hard-to-maintain PSTN line to advanced VoIP communication system while keeping all your legacy devices working as usual. PR18 is design to achieve 24h uninterrupted operation, it is equipped with built-in battery and network failover capability. The PR18 also supports IP65 water-proof and dust-proof, with Dual Power option for PoE input and DC input, making it suitable for different installation scenarios. No matter you are looking for solution to replace alarm line, modem line or office Fax solution, PR18 is always here to assist you.

Key Features and Benefits

Great Compatibility

Vola PR18 can be used in Fax, Phone, Modem and Alarm system. With great compatibility in contact ID, T.30, T.38 and V.150 Modem, you can easily replace PSTN line while keeping your legacy device work as usual.

Smart Path & Dual SIM cards

Vola PR18 supports WAN-5G failover, ensuring reliable network connection for critical application. With dual SIM card, when SIM1 is abnormal, SIM2 can be used quickly to switch network link and call account, ensuring stable and reliable IP communication, further enhanced the system stability.

24h Uninterrupted Communication

Vola PR18 is built with internal battery to support 24h standby time after power down. PR18 also supports VoNR as a backup when VoIP calls fail, maximizing communication capabilities for critical applications and delivering reliability just like traditional analog lines.

Flexible Installation

Vola PR18 is suitable for outdoor/indoor installation, it adopts IP65 and UV-proof design, with its PoE input design and SMA ports, eliminating the restriction of cable distance, making it suitable for different installation scenarios, your system can always get the best signal from the base station.

- 5G Redcap module
- Dual SIM card slots
- Support eSIM
- Dual GE ports
- 8 POTS line (RJ11 FXS)
- IP65 Water-Proof
- UV Resistance
- Dual SMA ports (for 5G Data & Voice)
- Built-in GPS Antenna
- Support PoE in
- Battery-inside (up to 24h standby)
- Battery Management System
- Support VoIP & VoNR
- Support T.37 & T.38 Fax
- Support Contact ID
- Support Modem

Hardware Specification	
Case	> Plastic
Ethernet Port	> 2 * RJ45, 10/100/1000Mbps (1WAN + 1LAN)
FXS Port	> 8 * RJ11 (3 REN)
Power Port	> 1 * 9V-24V DC, 4-Pin 3.0mm Connector > 1 * PoE port (Eth0, IEEE 802.3af)
SMA Port	> 2
Indicator	> 8 (1 * Status, 8 * FXS)
Dimension	> 227. * 131.5* 69 mm (L * W * H)
Bare Weight	> 1180g
Operating Environment	> Operating temperature: -10℃ ~ 50℃ (High/Low temperature will lead to shorter battery life) > Storage temperature: -20℃ ~ 70℃ (High/Low temperature will lead to shorter battery life) > Relative humidity: 10% ~ 90% (no condensation)
Battery	> LFP Battery, 4S2P > Nominal Voltage: 12.8V > Rated Capacity: 4400mAh > Over-charge Protection/Over-discharge Protection/Temperature Monitoring
5G Specification	
VoLTE Call	> Support (VoNR/VoLTE Fallback, VoNR/VoLTE Call)
Module	> Redcap > LTE CAT-4 (Backward compatibility)
Frequency Band	> LTE-CAT4: B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B30, B34, B38, B39, B40, B41, B42, B43, B48, B66, B71, B106 > 5G FR1 Redcap: n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n30, n38, n40, n41, n48, n66, n70, n71, n77, n78, n79
Network Speed	> 5G Sub-6 (SA Mode, FDD & TDD) – DL: 223 Mbps – UL: 123 Mbps > LTE CAT-4 (Backward compatibility) – DL: 200 Mbps – UL: 105 Mbps

Protocol	
Network Protocol	> 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 Specification	
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, RFC2833/4733, SIP-INFO > VoIP fallback to VoLTE
Communication Protocol	> Contact ID: Relay & Transmitter > Fax: T.30/T.38 > Modem: V150.1, V.21, V.22 > SIP V2.0(RFC3261)
Management and Application	
Management	> OTA Firmware upgrade > Network management Interface > Local and Remote system logs (RFC3164) > Automatic configuration (Http/Https/Tftp) > SNTP time sync > Multiple user level > Telnet > TR069 (TR181, TR104)
Application	> NAT/NAPT router function > MAC address clone > Built-in NAT line router > DHCP server / client > Firewall

About Vola

Vola Networks, a US-based high-quality equipment provider, offering POTS replacement solution tailored specifically for MSPs.

Vola POTS service package including innovative CPE with a battery and 4G for internet backup, an SBC supporting V.150/V.152/FEC/T.38/T.37/C-ID, and the VolaCloud for managing all devices.

By leveraging reliable hardware and advanced POTS media SBC, Vola addresses unique challenges associated with essential POTS applications, including Alarms, Elevator Phones, Fax, and Modem Communications, providing outstanding stability and dependability in the unpredictable network environment.

Our Linkedin Profile

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