

FLYINGVOICE

POTS Replacement Integrated Solution

Solution Brochure

ABOUT FLYINGVOICE

Founded in 2007, Flyingvoice is a high-tech company specialising in VOIP terminal products and 5G FWA products.

We have research facilities in Bangkok, Hong Kong and Shenzhen, and manufacturing facilities in Shenzhen, China and Vietnam.

Over the past decade, Flyingvoice has developed three main product lines: IP Phones, POTS Replacement and 5G FWA. Our mission is to provide customers with a one-stop solution for voice and data communications, along with a comprehensive range of POTS replacement solutions.

Flyingvoice products meet rigorous telecom-grade testing standards and are widely used in the carrier market. Flyingvoice's POTS replacement products are widely used by operators in South Korea and North America. Flyingvoice's IP Phone products are widely used in carrier deployments in South Korea, India and China, while Flyingvoice's 5G FWA products are widely used by carrier in China and India.

At the same time, Flyingvoice is placing significant emphasis on supporting the enterprise integration market. To support its global integrator partners, we have established a comprehensive technical support system. Our network of distributors and integrator partners extends across strategic countries and regions globally.

TECHNOLOGY PARTNERS



Contact us



Linkedin

Why replace POTS?

As we move deeper into the world of VoIP, the problem of security and alarm system under the POTS(plain old telephone service) line is becoming more apparent and serious.

Telecommunication carriers are phasing out POTS lines, FCC officially mandates that POTS should be replaced, the cost of it's maintenance is gradually increasing and it's getting more and more impractical to lay lines for new buildings.

The time for POTS replacement is come, your enterprises deserve a better solution to carry the security system and phone lines.



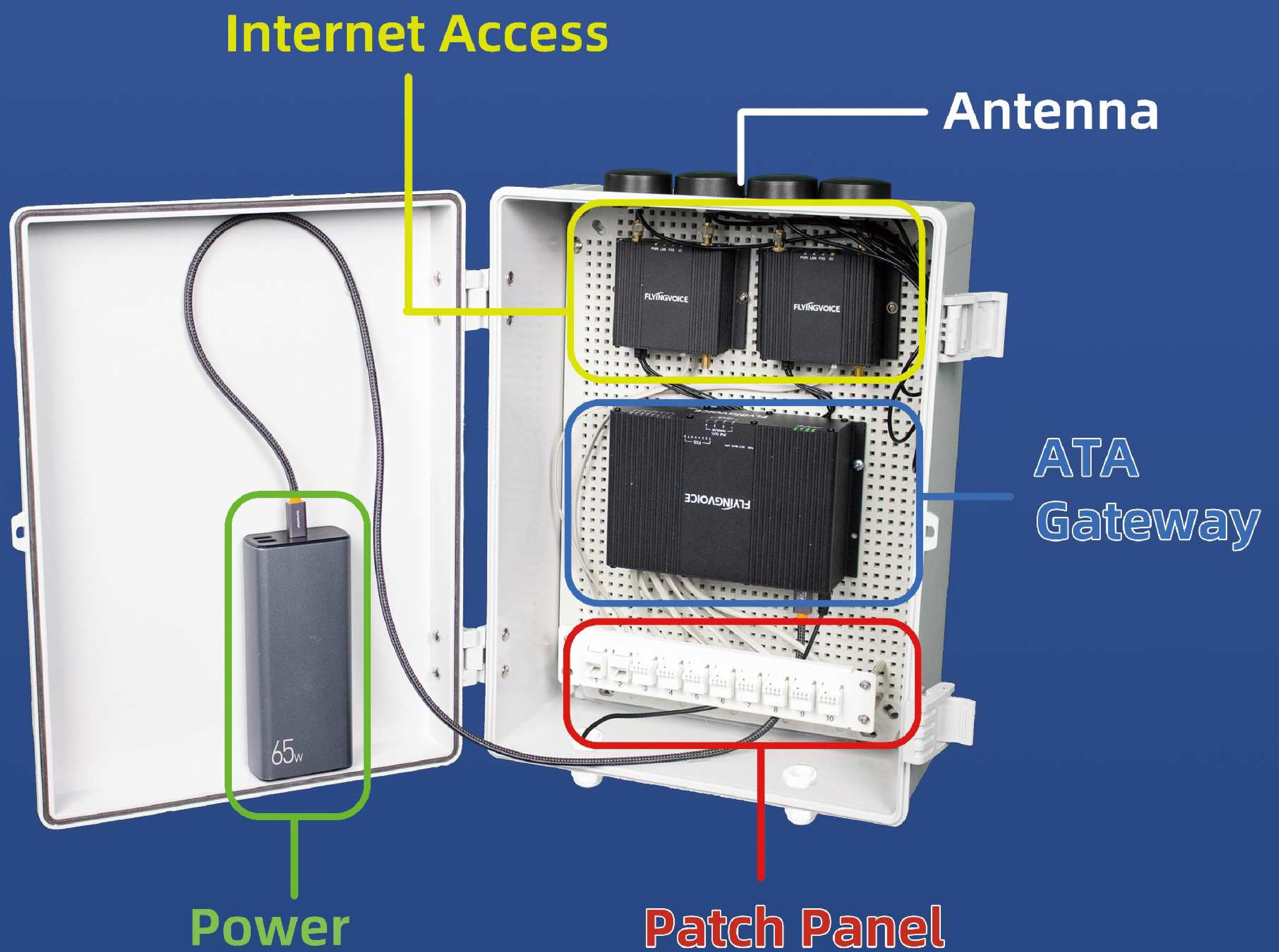
Why Flyingvoice?

Flyingvoice POTS solution is a highly integrated solution that all devices fit in a NEMA water-proof box, which can provide better protection to the devices and save your time and cost in installation and maintenance.

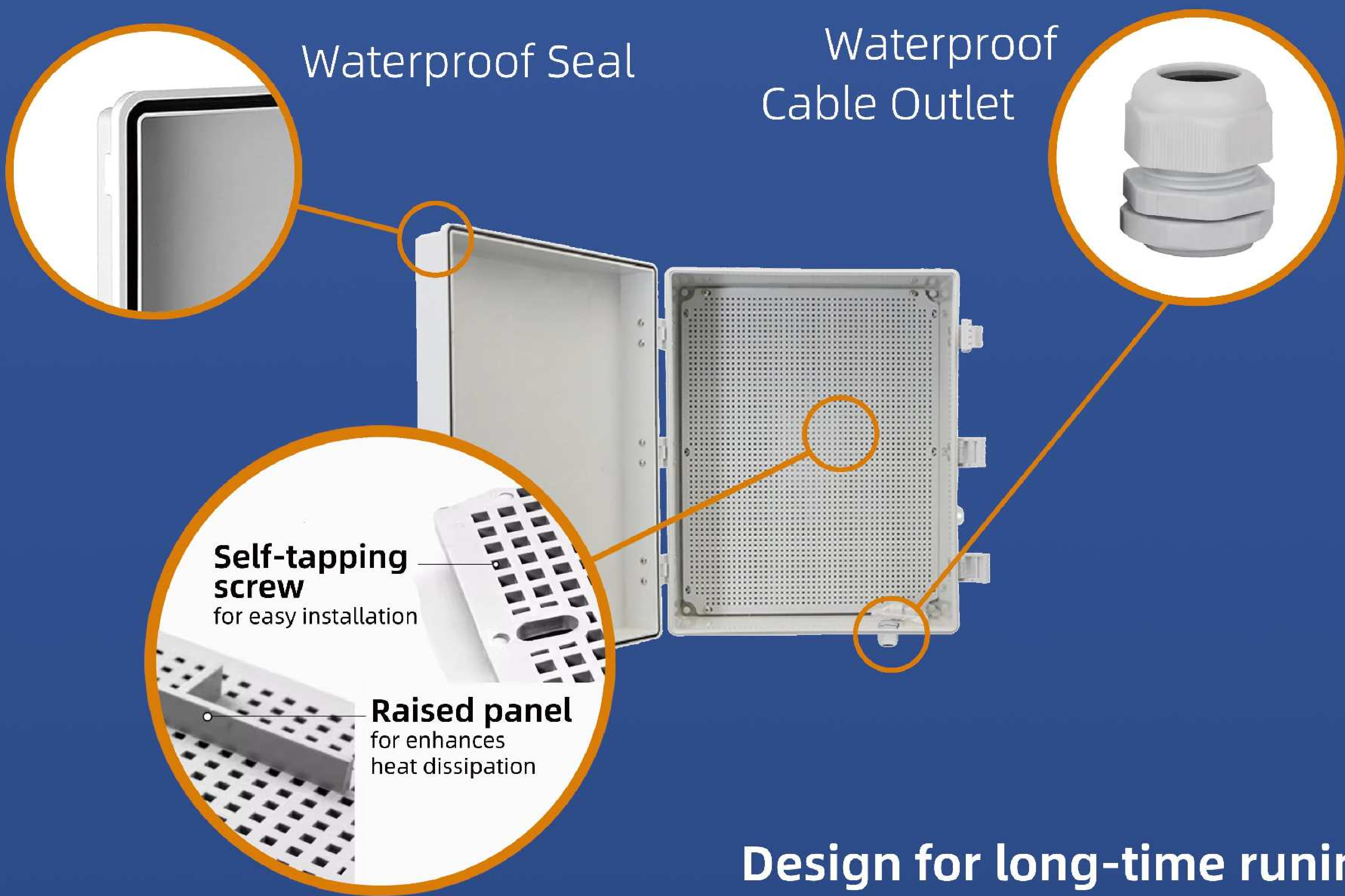
To guarantee your connection's stability, our solution provide multiple network access and power backup plan to make sure that your system is get covered 24h/7. The solution supports PD 65w power bank as power backup, which means you can choose capacity flexibly to adapt to your scenario.

By combining our years of experience in VoIP hardware development, we provide a flexible solution that you can customize all the parts of the solution to fulfil all your needs, no matter you prefer 4G LTE or 5G, wired or wireless connection, 1FXS or 16FXS, we always have a plan for you.

A Tailor-made Modular Solution



Network & Power Failover
Great Compatibility
Tailor-made Solution
Multiple Internet Access
Waterproof & Fireproof
Reliable & Easy to Maintain



Design for long-time runing

Internet Access



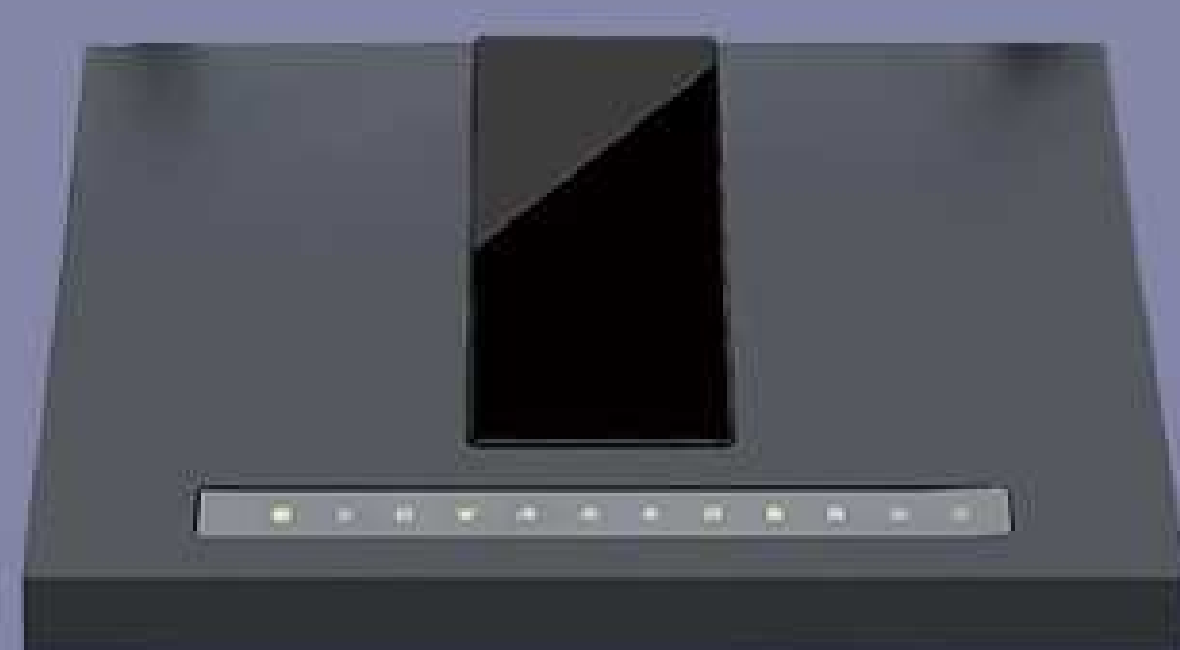
LM150

- LTE cellular
- VoLTE
- Dual SIM card slots
- 1 FXS
- 1 LAN
- 2 SMA ports(4G)
- 1 SMA port(GNSS)
- UART ports
- PoE in



SR3000-5G-Ruggedized

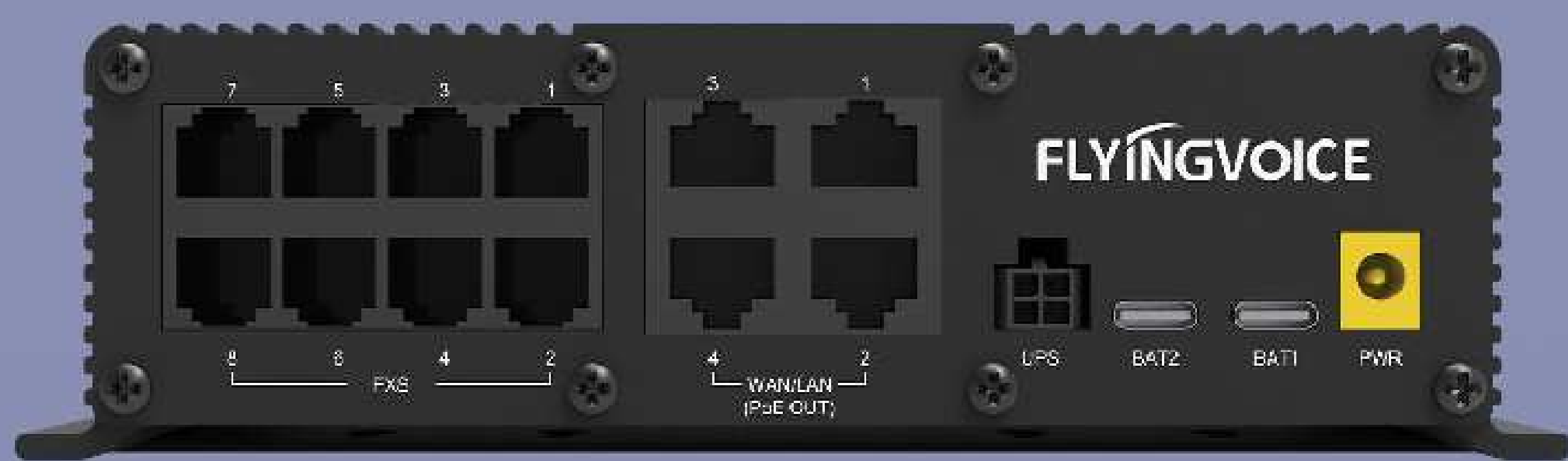
- 5G cellular
- Wi-Fi 6
- Single SIM card slot
- Sub-6GHz
- 3 GE LAN
- 1 GE WAN
- 4 SMA ports(4G)
- 4 SMA ports(Wi-Fi)
- 1 SMA port(GNSS)
- NSA & SA



LTE520S

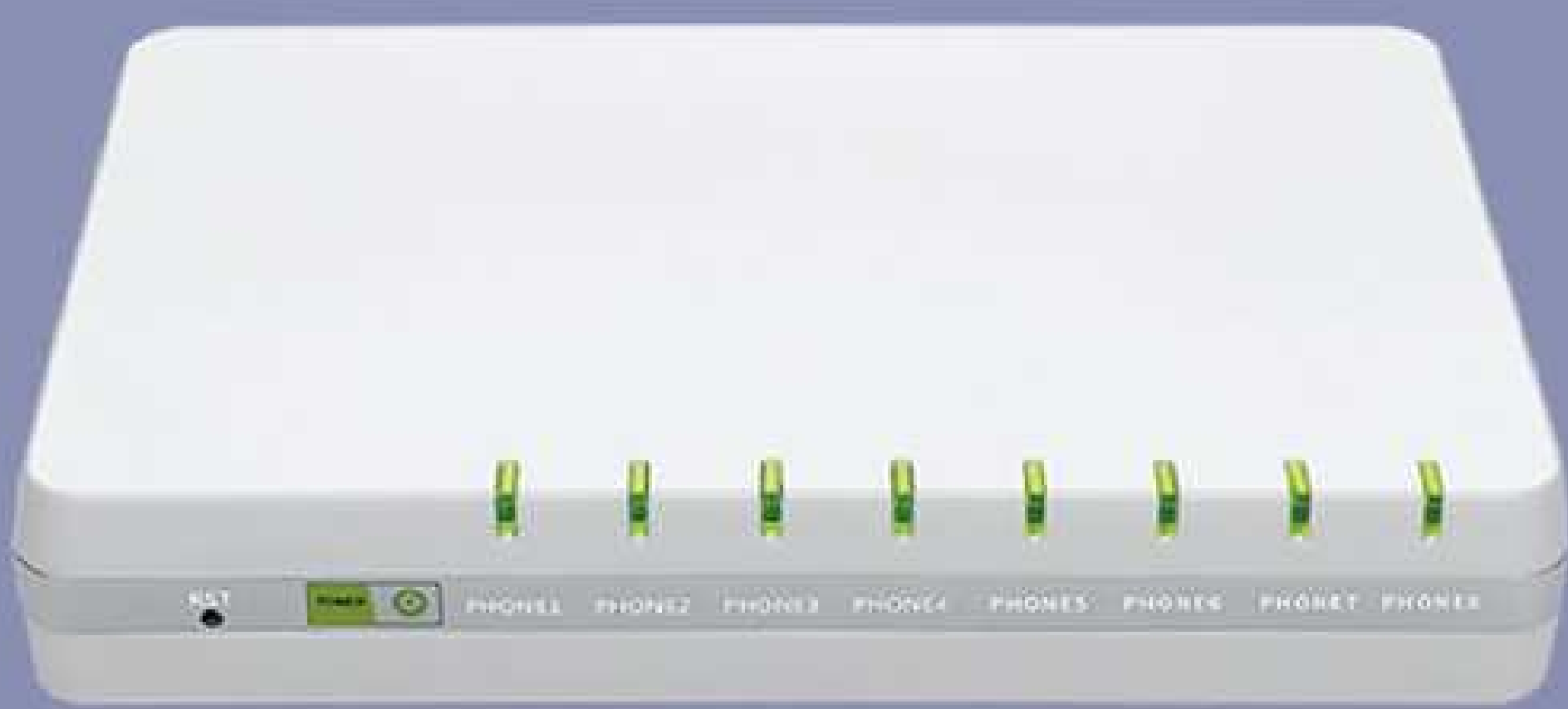
- LTE cellular
- VoLTE
- Single SIM card slot
- 2 FXS
- 4 LAN
- 1 WAN
- 2 SMA ports(4G)
- T.38 & T.30

ATA Gateway



PR08

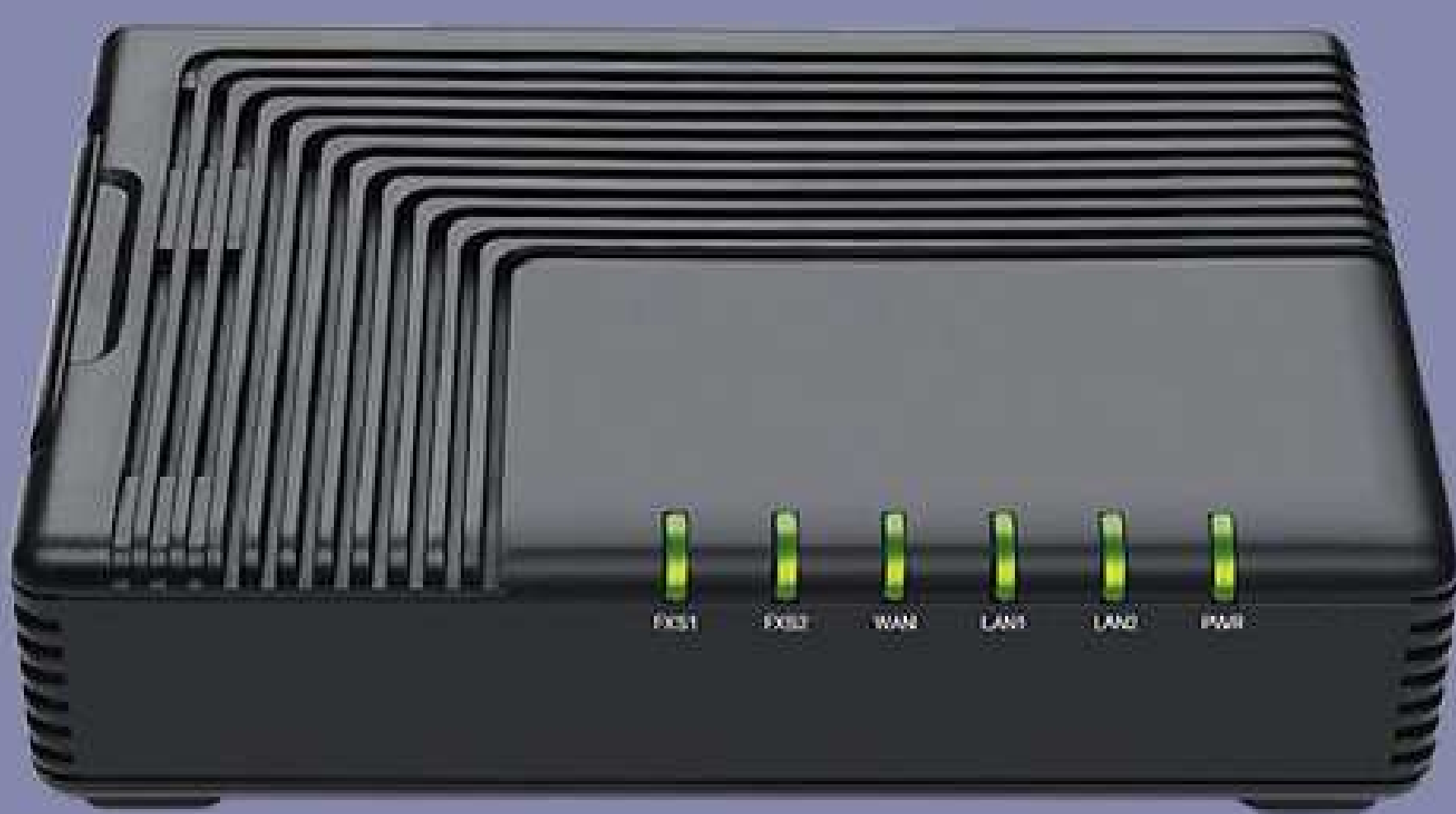
- 8 FXS
- 2 GE WAN(Network failover)
- 2 GE LAN
- 2 Type-C(Power failover)
- 12V UPS Out
- PoE Out
- T.38 & T.30
- Multiple audio codec



G504/G508

- 4/8 FXS
- 1GE LAN
- 1GE WAN
- T.38 & T.30
- Multiple audio codec

FTA 5102E2



- 2 FXS
- 1 WAN
- 2 LAN
- T.38 & T.30
- Multiple audio codec

Power Supply



PR08

- Built-in UPS system
- Support 2 Powerbank
- Provide 12V UPS output
- Provide PoE output

Mini-UPS

Multiple DC Ports
Power Supply
with Battery

5 DC Ports + 2 USB





Patch Panel

10 Ports Patch Panel

Flexible combination



RJ11 module

RJ45 module



Antenna

4G&Wi-Fi&GNSS 3-in1 Antenna

4G: 700-960 MHz, 1700-2700 MHz
Wi-Fi: 2400-2500 MHz, 5150-5850 MHz
GNSS: 1559-1606 MHz
Dimensions: 143.73 × 51.33 × 15mm
IP67



4G/Wi-Fi/GPS/BD Antenna

Frequencny : 433-5800MHz
Dimensions: 46× 16mm
IP67

For other accessories, please check the following pages.

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Recommended Combination



16 FXS (VoIP)
4-in-1 MIMO-Antenna
4 1000M LAN
 Network Failover

Dual Power Backup (with power bank)
 Built-in UPS
 5G Access
 Wi-Fi 6



8 FXS (VoIP)
 PoE Output
 Built-in UPS
 Network Failover

Flexible Router Choice
2 Built-in 1000M LAN
Dual Power Backup (with power bank)

8

10

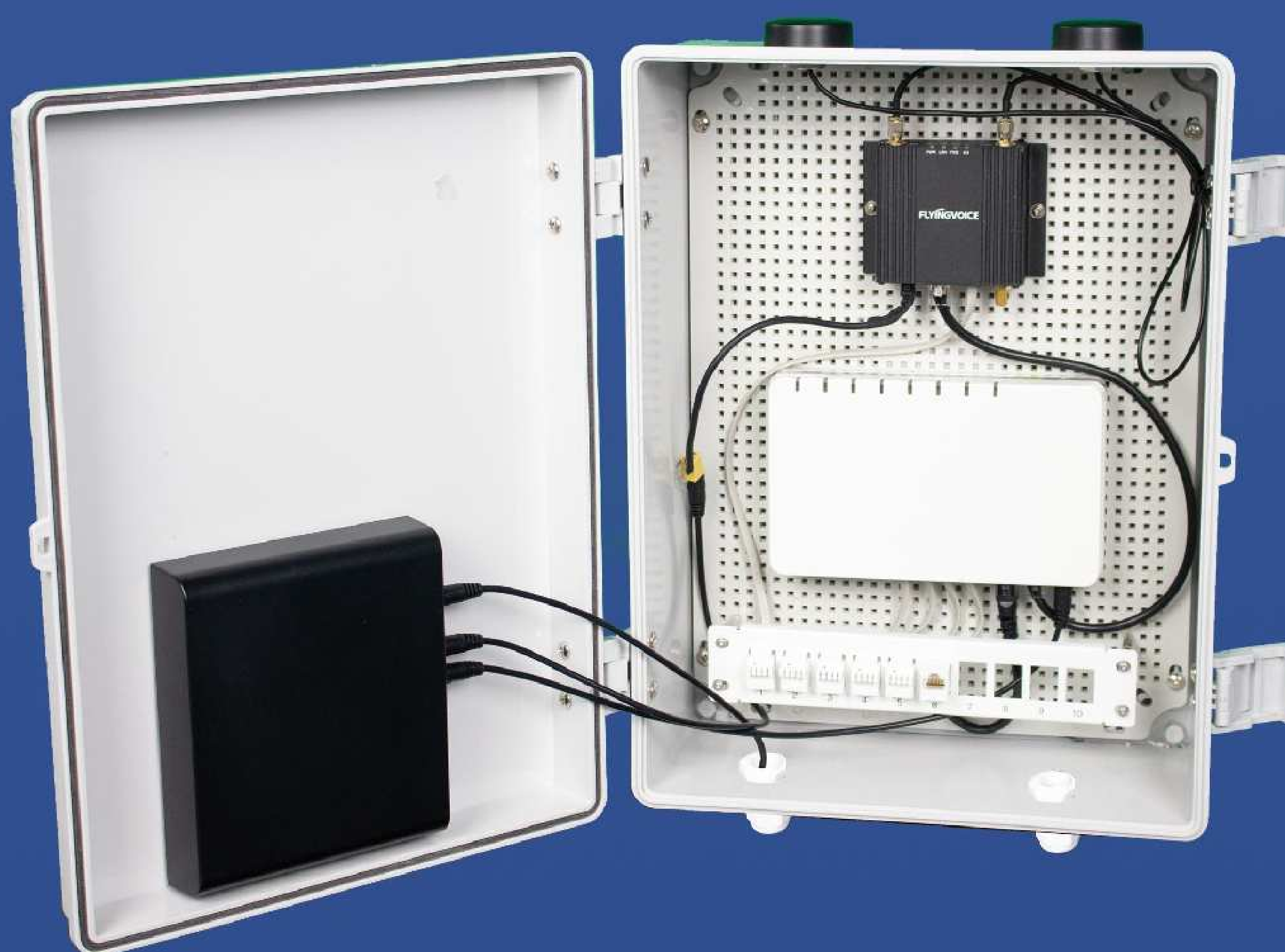
8 FXS (VoIP)
2 FXS (VoLTE)
Network Failover
4 SIM Cards
IoT Connectivity
Built-in UPS
GPS Locate
Dual Power Backup
(with power bank)
2 1000M LAN



4 FXS (VoIP)
2 FXS (VoIP&VoLTE)
Network Failover
Power backup (built-in)
1 1000M LAN
3 100M LAN

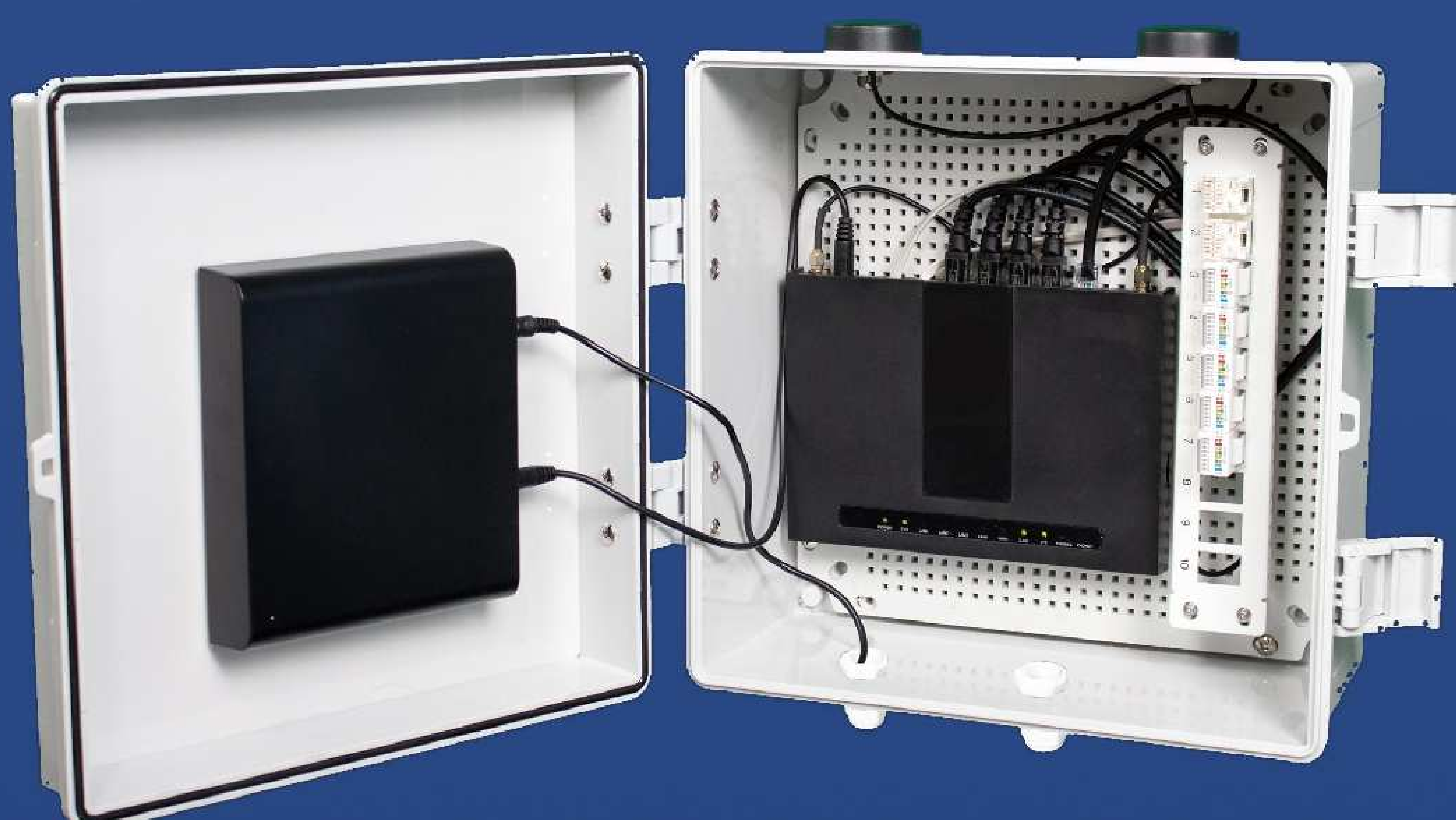
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4 FXS (VoIP)
1 FXS (VoLTE)
Network Failover
IoT Connectivity
2 SIM Cards
GPS Locate
Power Backup
(built-in)
1 1000M LAN



5

2 FXS (VoIP&VoLTE)
Network Failover
Power Backup (built-in)
4 100M LAN



2

1 FXS (VoLTE)
2 SIM Cards
IoT Connectivity
Network Failover
Power backup (built-in)
GPS Locate
1 100M LAN



1

LM150

4G LTE Modem



Connectivity

- CAT-4 LTE module
- LTE-FDD: B/2/4/5/12 /13/25/26
- WCDMA: B2/4/5
- 2 SIM card slots
- 1 FXS Port
- 1 LAN Port
- 3 SMA Ports (2 for 4G, 1 for GNSS)
- 12V 4-pin Power Port
- UART Serial Ports
- Support PoE in

Main Features

- Network backup
- VoLTE
- IPv6&IPv4
- IP Passthrough
- STUN(RFC3489)
- ARP/RARP(RFC826/903)
- IP Passthrough/NAT
- TFTP/HTTP/HTTPS auto-config
- Message Tips(RFC3842)
- DNS/DNSSRV(RFC1706/RFC2782)

Case Protection

- IK10 Mechanical Protection
- Operating temperature: -40~85°C
- 6KV Lighting Protection

SR3000-5G Ruggedized 5G Router

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Connectivity

- NSA/SA Dual Mode
- Sub-6GHz
- 4G/5G Nano SIM card slot
- 1 1000M WAN Port
- 3 1000M LAN Ports
- 8 SMA Ports
(4 for Cellular, 4 for Wi-Fi)
- PoE Out 48V
- Wi-Fi 6
- Up to 3000Mbps Wireless Rate
- Individual eFEM

Main Feature

- Router Mode and Bridge Mode
- DDNS
- MAC Address Cloning
- SIP Proxy Redundancy
- NAT Traversal by STUN
- Built-in Wired NAT line Router
- DHCP Server and Client
- IP Conflict Detection
- Port Forwarding, DMZ
- 802.1Q VLAN/802.1p, DSCP, Rate Limiting
- VPN (PPTP, L2TP, IPSec) Passthrough

LTE520S

LTE Router

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Connectivity

- CAT-4 LTE module
- LTE-FDD: B2/B4/B5/B12/B13/B14/B25/B26/B66/B71
- LTE-TDD: B41
- 2 FXS Ports
- 4 LAN Ports
- 1 WAN Ports
- 2 SMA Ports (4G)
- 2X2 2.4GHz 802.11 b/g/n

Main Feature

- NAT Mode and Bridge Mode
- DDNS
- MAC Address Cloning
- SIP Proxy Redundancy
- NAT Traversal by STUN
- Built-in Wired Speed NAT Router
- DHCP Server and Client
- IP Conflict Detection
- Port Forwarding, DMZ, SuperDMZ
- 802.1Q VLAN/802.1p, DSCP, Rate Limiting
- VPN (PPTP, L2TP, IPSec) Passthrough
- FAX T.38&T.30
- Firewall

Network Protocol

- SIPV2.0 (RFC3261)
- SDP (RFC2327)
- RTP/RTCP (RFC823/903)
- NAPTP for SIP URI check (RFC2915)
- STUN (RFC2030)
- ARP/RARP (RFC826/903)
- NTP/SNTP (RFC8030)
- TFTP/HTTP auto-provisioning
- DHCP Option Codes (RFC3361)
- DNS/DNS SRV (RFC1706/RFC2782)

PR08

ATA Gateway

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Connectivity

- 8 FXS Ports
- 2 1000M LAN Ports
- 2 1000M WAN Ports
- 12V 4-pin Power port
- 2 Type-C USB (PD 3.0)

Main Feature

- Network Failover
- Power Backup
- PoE Out
- UPS for other devices
- NAT/NAPT
- Firewall
- Built-in NAT line router
- DHCP Server/Client
- SIP Proxy Redundancy
- VLAN
- TR069, SNMPv2
- FAX T.38&T.30

Network Protocol

- SIPV2.0 (RFC3261)
- SDP (RFC2327)
- RTP/RTCP (RFC1889/RFC1890)
- NAPTP for SIP URI check (RFC2915)
- STUN (RFC3489)
- ARP/RARP (RFC826/903)
- NTP/SNTP (RFC8030)
- TFTP/HTTP/HTTPS auto-config
- Message Tips (RFC3842)
- DHCP Option Fields (RFC3361)
- DNS/DNSSRV (RFC1706/RFC2782)

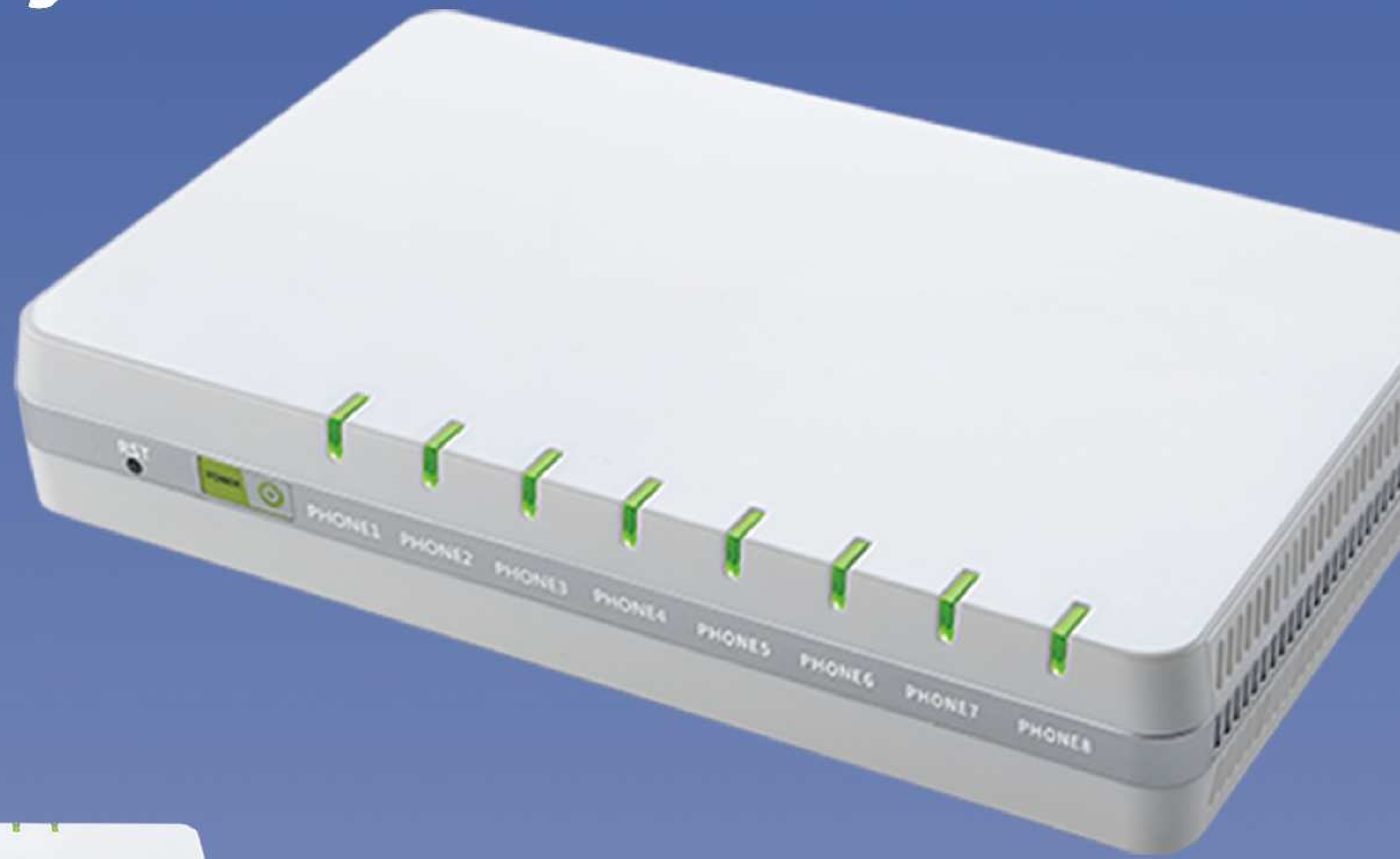
G504/G508

ATA Gateway

FLYINGVOICE



G508



G504



Connectivity

- 4/8 FXS Ports
- 1 1000M LAN Ports
- 1 1000M WAN Port

Network Protocol

- SIP V2
- Session Timer (RFC4028)
- SDP (RFC2327)
- RTP/RTCP (RFC1889 and RFC1890)
- UDP/TCP/TLS
- IPv4/ IPv6/ Dual Stack
- STUN (RFC 3489)
- ARP/RARP (RFC 826/903)
- PPTP/L2TP VPN
- NAPTR for SIP URI Lookup (RFC2915)
- TFTP/HTTP/HTTPS for Auto Provisioning
- Message Waiting Indicator (RFC3842)
- DHCP Option Codes for SIP (RFC3361)
- DNS/DNS SRV (RFC1706 and RFC 2782)

Main Feature

- NAT Mode and Bridge Mode
- NAT/NAPT Router function
- MAC Address Cloning
- PPTP/L2TP VPN
- PPPoE
- SIP proxy redundancy
- Dynamic via DNS SRV, A records
- NAT Traversal by STUN
- VLAN
- DMZ
- QoS with Layer 3
- DHCP Client and DHCP Server
- IP conflict detection

FTA5102E2

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ATA Gateway



Connectivity

- 2 FXS Ports
- 2 100M LAN Ports
- 1 100M WAN Port

Network Protocol

- SIP V2
- SDP (RFC2327)
- RTP/RTCP (RFC1889 and RFC1890)
- UDP/TCP/TLS
- IPv4/ IPv6/ Dual Stack
- STUN (RFC 3489)
- ARP/RARP (RFC 826/903)
- PPTP/L2TP VPN
- NAPTR for SIP URI Lookup (RFC2915)
- TFTP/HTTP/HTTPS for Auto Provisioning
- Message Waiting Indicator (RFC3842)
- DHCP Option Codes for SIP (RFC3361)
- DNS/DNS SRV (RFC1706 and RFC 2782)

Main Feature

- NAT Mode and Bridge Mode
- MAC Address Cloning
- DHCP Server/Client
- PPTP/L2TP VPN
- SIP proxy redundancy
- Dynamic via DNS SRV, A records
- NAT Traversal by STUN
- VLAN
- DMZ
- QoS with Layer 3
- IP conflict detection

Power Supply

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Mini-UPS Specification

Output:

- USB 5V/2A
- DC1 9V/2A
- DC2-5 12.2V-9V/6A

Input:

- DC 12.6/2A

Uninterrupted Power Supply

7 Ports Simultaneous Output

Power Indicator

Capacity: 98wh

Size: 161×138×33mm



PR08 support
accessing 2 powerbank
as power backup



Support any 65W PD Powerbank

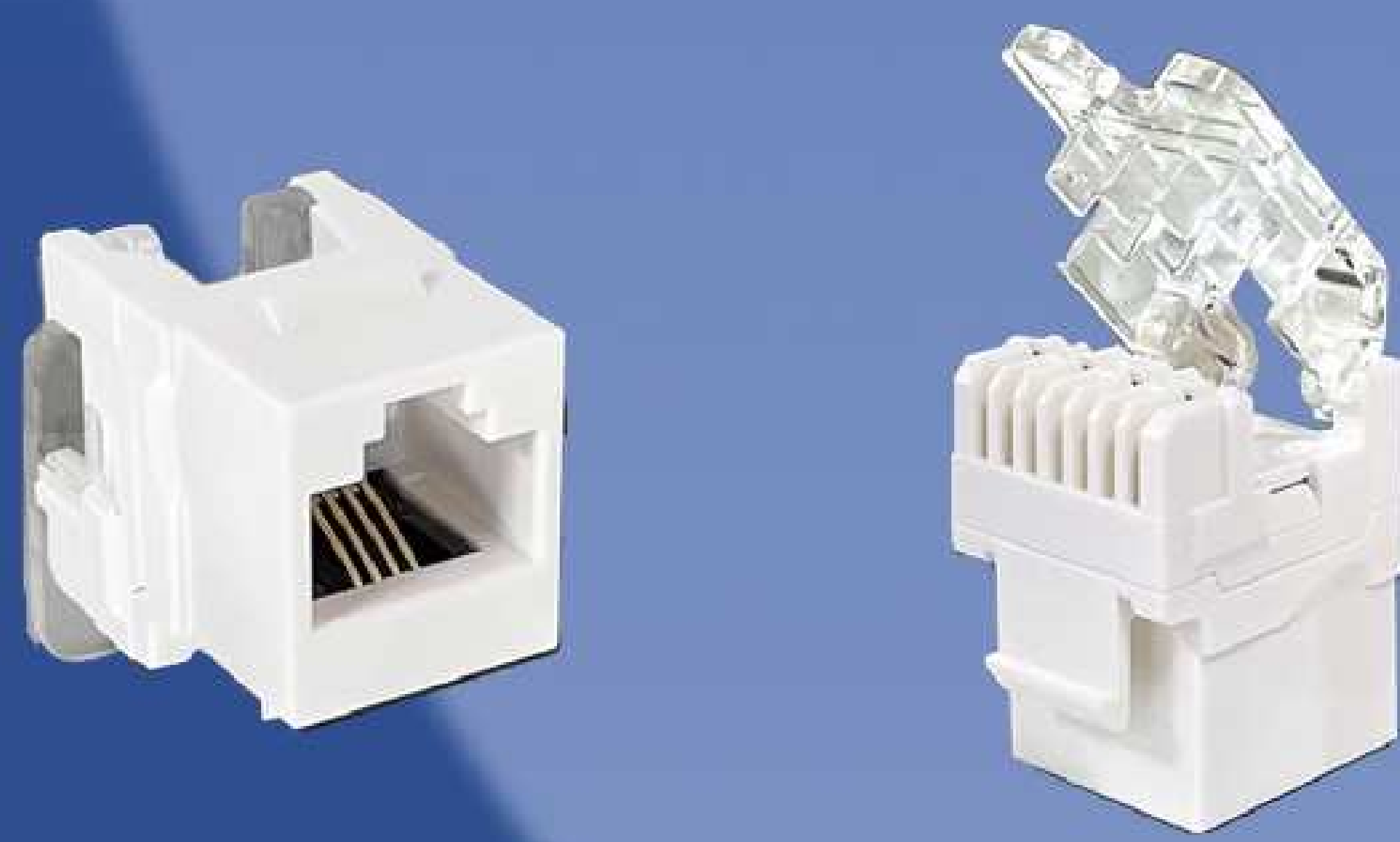
Modular Patch Panel

FLYINGVOICE



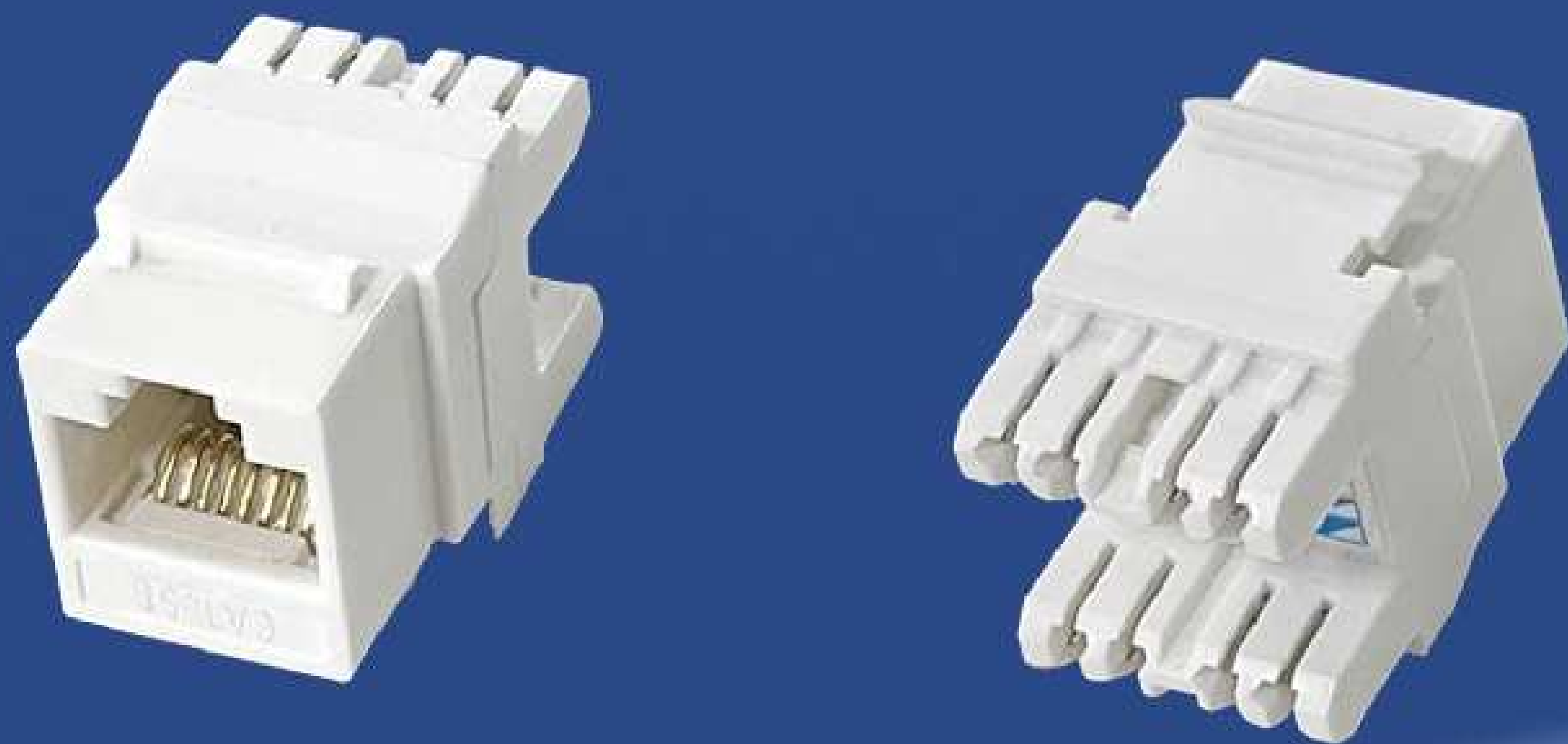
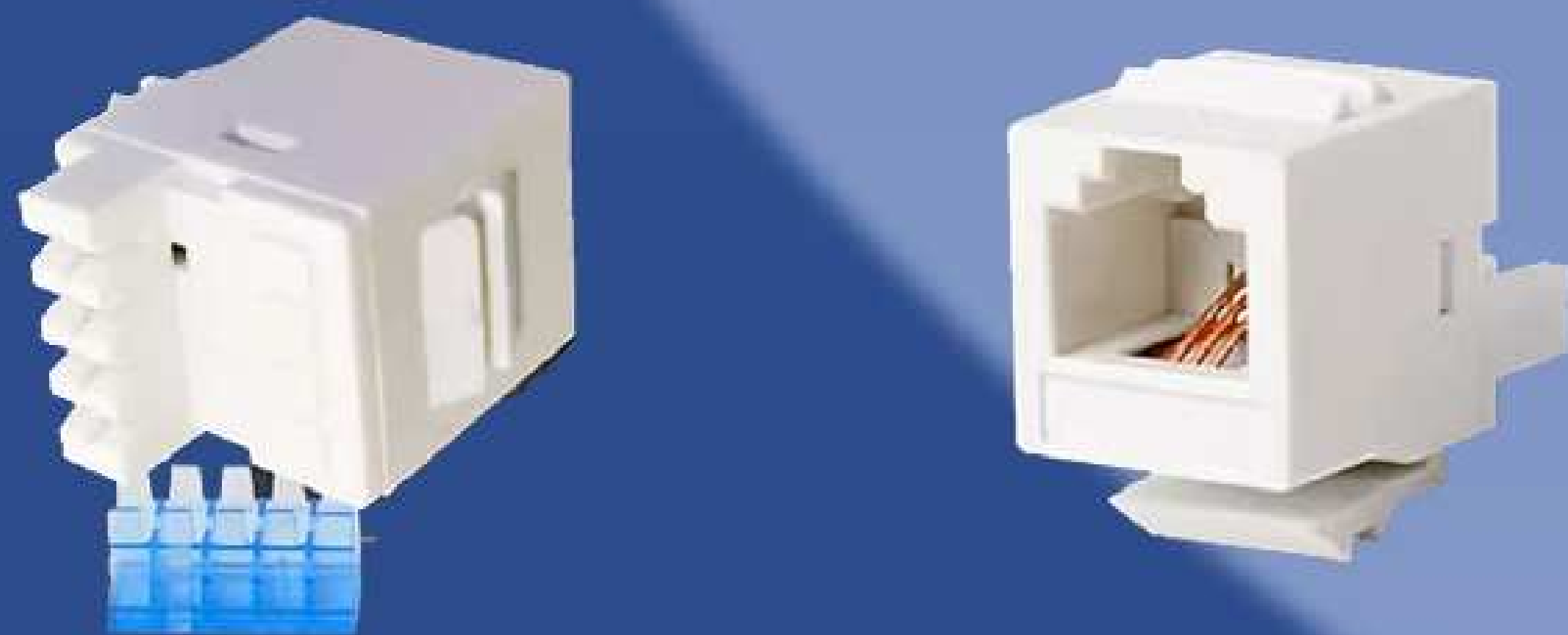
10 Ports Patch Panel (empty)

include installation screws



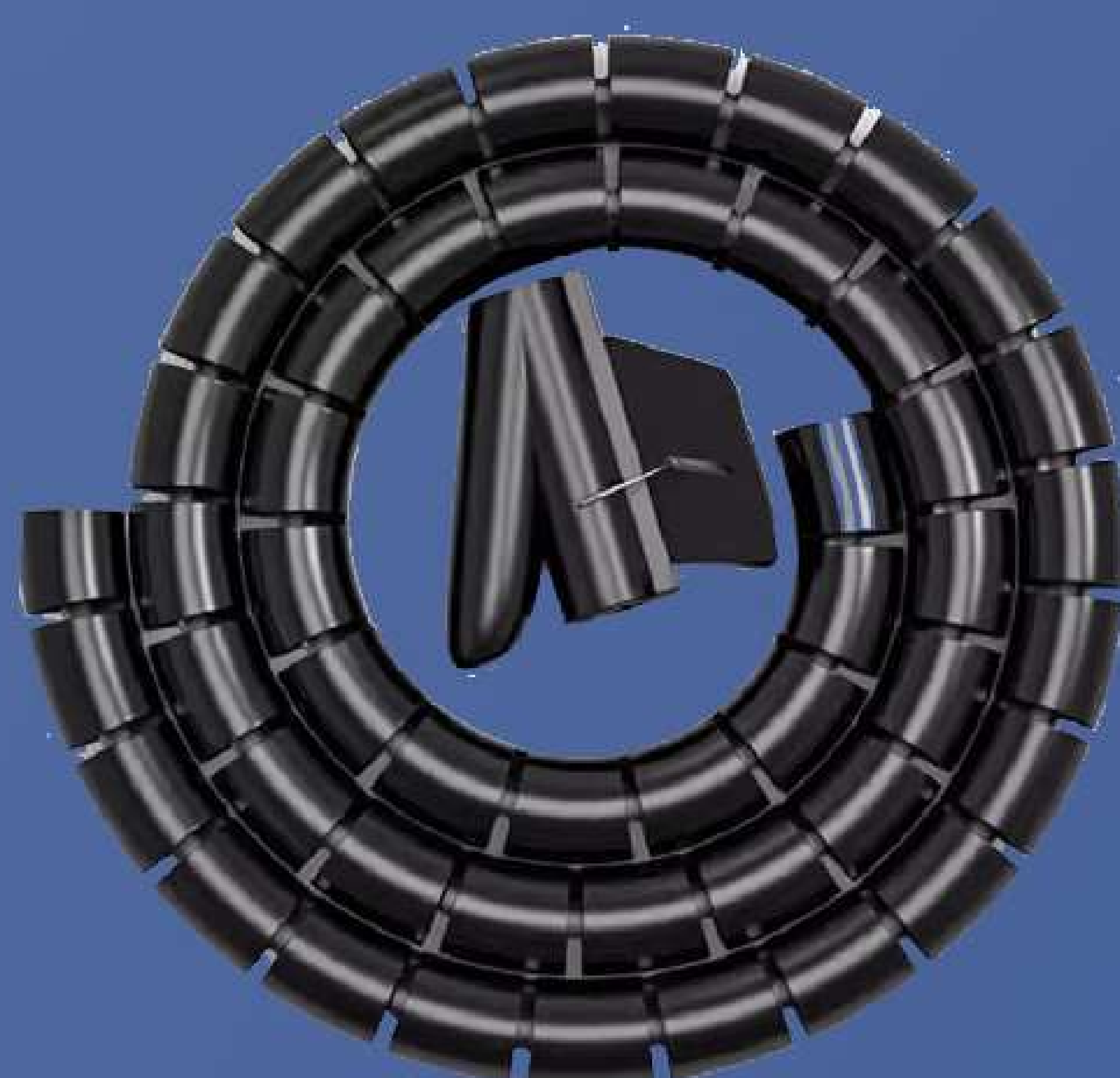
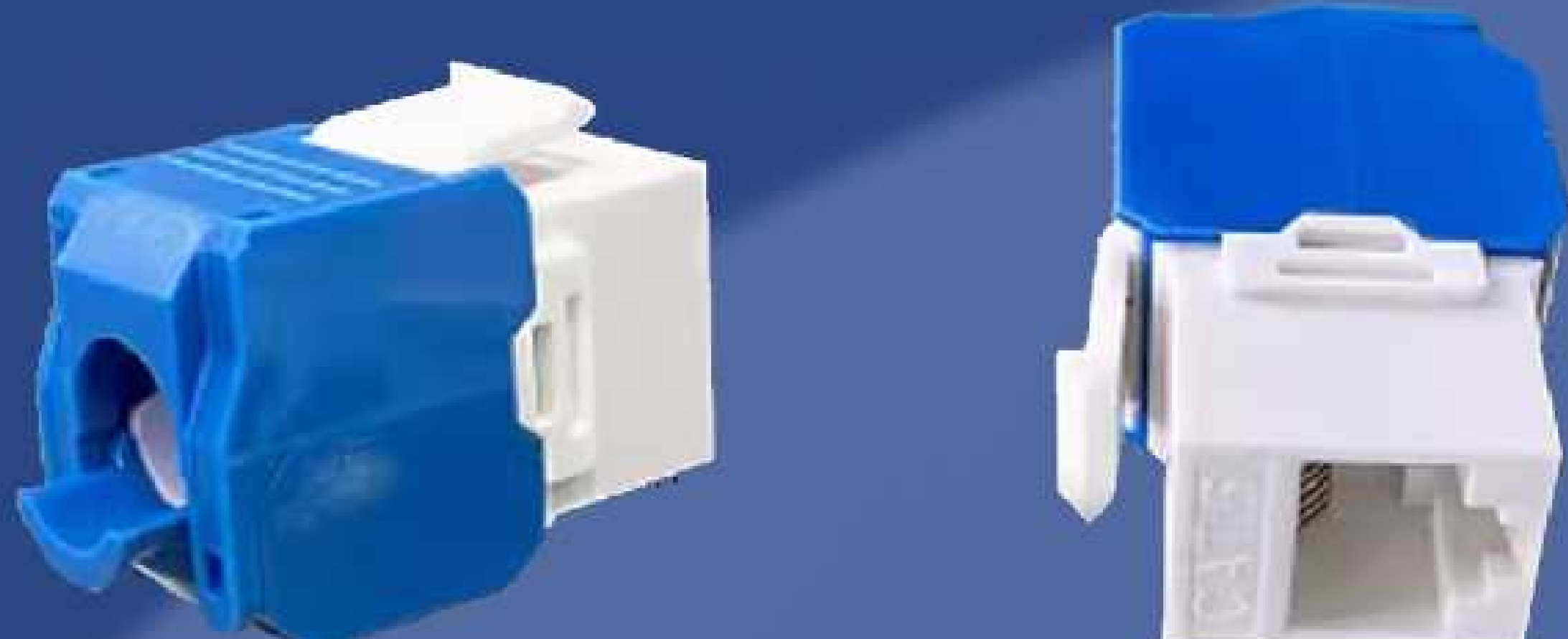
RJ11 module

option for:
punch-down
punch-down-free



RJ45 module

option for:
punch-down
punch-down-free



Cable Manage Tube

20mm/3m

Antenna

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**4G&Wi-Fi&GNSS 3-in-1
Antenna**

Frequency:

4G: 700-960 MHz, 1700-2700 MHz

Wi-Fi: 2400-2500 MHz, 5150-5850 MHz

GNSS: 1559-1606 MHz

Gain: 2.9-3.8dB(AVG), 1.3-4.1dbi(Max.Peak)

Dimensions: 143.73 × 51.33 × 15mm

Efficiency: Up to 50% (4G), Up to 50% (Wi-Fi)

GNSS LNA Gain: 18 ±3 dB

Impedance: 50Ω

Port: 3 × SMA

RoHS Compliant

IP67



4G/Wi-Fi/GPS/BD Antenna

Frequencny : 433-5800 MHz

Gain: 5dBi

VSWR: <1.8

Impedance: 50Ω

Radiation: Omini-directional

Operating Temperature: -40~85°C

Dimensions: 46 × 16mm

IP67

Size: 50*49

Port: SMA

Cable



RJ11

Customized Cable



RJ45

Customized Cable

NEMA Box

Water-proof



400mm*300mm*160mm

Removable panel

Pre-drilled

With accessories



300mm*300mm*170mm

Removable panel

Pre-drilled

With accessories



Contact us

Sales:
sales@flyingvoice.com

Customer Support:
support@flyingvoice.com

Marketing Cooperation:
marketing@flyingvoice.com



[Our Website](#)



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FLYINGVOICE

FLYINGVOICE NETWORK TECHNOLOGY CO.,LTD.

Website: www.flyingvoice.com

Email: sales@flyingvoice.com

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