

SW7R-Pro

Waterproof Reverse PoE Switch

Flyingvoice SW7R-Pro, an innovative reverse PoE switch designed to meet the demands of modern 5G Fixed Wireless Access (FWA) environments. Featuring 7 PoE in ports and 1 PoE out port, this device ensures flexible network connectivity. With an IP55 rating, it offers robust protection against dust and water, making it ideal for outdoor and harsh industrial applications. The SW7R-Pro excels in powering 5G outdoor CPEs while supporting power sharing functionality and incorporating loop current detection for maintaining stable power and network performance. It is an easy to deploy, low-cost way for any ISP to deliver the Internet to individual apartments.



Key Features

Reverse PoE Ports, Innovative Power on

SW7R-Pro integrates 7 PoE in ports, that can draw the necessary power even from a single client. And it also integrates an uplink port 8 can provides Internet access and power other PoE capable devices with the same voltage as applied to the unit.

5G FWA Compatibility, Enrich indoor/ outdoor Scenarios

SW7R-Pro integrates 2.5GE ports, suitable for use with 5G CPE, and supports high-speed network access. And it is rated IP55 for dustproof and waterproof and is equipped with metal fittings to support indoor/ outdoor wall and pole installation.

Security Monitoring, Ensure Device Usable

SW7R-Pro supports power sharing and power monitoring, supports limiting the min voltage of PoE in order to ensure normal power supply, and can view the voltage and power of each port. It also supports VCT cable detection, and can view speed status of each port and cable connectivity in real time.

Rich Remote Server, Efficient Management

SW7R-Pro supports Telnet, SSH remote management services, and SNMP, TR069, MQTT network management services to achieve remote device configuration and management, suitable for various network deployment scenarios.



- 2 * 2.5GE Ports + 6 * GE Ports
- 7 * PoE in
- 1 * PoE out
- IPv4 & IPv6
- Multi-level role users
- DHCP snooping
- IGMP / MLD multicast
- QoS
- Power monitoring
- VCT diagnostic
- SSH/Telnet
- TR069/ SNMP v3
- Lightning protection 6KV
- IP55 protection
- Support wall, pole mounting

Hardware Features

Ethernet Ports	<ul style="list-style-type: none"> > 1 * 2.5G Uplink port > 1 * 2.5G LAN + 6 * GE LAN ports > PoE power supply, IEEE 802.3af
PoE Input	<ul style="list-style-type: none"> > 6 * PoE-In LAN ports - 10/100/1000 Mbps auto-negotiation > 1 * PoE-In LAN port - 10/100/1000/2500 Mbps auto-negotiation > Voltage: 48~56V, 32.4W Min > PD powering 4 pair: Power up using any +ve & -ve PoE pairs
PoE Output	<ul style="list-style-type: none"> > 1 * PoE-Out Uplink port - 10/100/1000/2500 Mbps auto-negotiation > Support hot-plugging > Voltage: 54V, 20W Max > 4 pair powering (1,2,4,5 +ve & 3,6,7,8 -ve)
LED Indicators	<ul style="list-style-type: none"> > 1 * Power indicator > 8 * Ethernet port signal indicators
Dimension	> 227.4mm * 129.5mm * 57.88mm (L * H * W)
Weight	> 720 g

Physical & Environment Specification

Protective Design	<ul style="list-style-type: none"> > IP55 dust-proof and water-proof > Lightning protection: <ul style="list-style-type: none"> - Common mode 6KV - Differential mode 2KV
Temperature	<ul style="list-style-type: none"> > Operating temperature: -20°C to 55°C > Storage temperature: -40°C to +85°C
Humidity	<ul style="list-style-type: none"> > Operating humidity: 10% to 90% (non-condensing) > Storage humidity: 5% to 95% (non-condensing)
Altitude	> Operating altitude: Up to 5000 meters
Installation	> Wall mount, pole mount, desktop

Software Features

<p>Network</p>	<ul style="list-style-type: none"> > IPv4 & IPv6 dual stack > DHCP & DHCPv6 > MAC port binding > MAC clone > Port isolation > Port mirror > VLAN <ul style="list-style-type: none"> - Support 256 - Default VLAN960 (manage)/ VLAN1015 (data)/ VLAN1022 (multicast) - Support Access/Trunk/Hybrid mode - VLAN fork > DHCP snooping > IGMP v1/v2/v3 snooping > MLD v1/v2/v3 snooping
<p>Security</p>	<ul style="list-style-type: none"> > Port loopback detection > Broadcast/multicast/unicast storm control > Flow control > 802.1X authentication > Radius server authentication > NAC > QoS: <ul style="list-style-type: none"> - Based on port priority/ 802.1p priority/ DSCP priority - Support schedule mode (SP/ WRR) > ACL > Secure boot > Power Monitor > Event reporting for port disconnecting and loss of power > Cable diagnostics (VCT)
<p>System & Management</p>	<ul style="list-style-type: none"> > Network Management Interface: Supports web configuration > Multi-user level management: Admin, User, Root > Support backup configuration, restore factory settings, reboot > Firmware upgrade over the air (FOTA) > Auto-MDIX > SNMP v1/v2/v3 > TR069

	<ul style="list-style-type: none"> > Telnet, SSH management server > MQTT > Local Syslog > SNTP Time Synchronization
Package Content	
Package List	<ul style="list-style-type: none"> > 1 * Flyingvoice SW7R-Pro switch > 1 * 2.5G PoE adapter, 1 * Cat6 2.5G Ethernet cable > Metal bracket bag, screw bag > Quick installation guide
Box information	<ul style="list-style-type: none"> > Qty/CTN: 10 Pcs > N.W/CTN: 1.39 Kg > G.W/CTN: 14.75Kg > Gift Box Size: 256 * 212 * 97mm (L * W * H) > Carton Size: 505 * 440 * 272mm (L * W * H)
Certification	> IP55/FCC/CE/RoHS/WEEE



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 carriers 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 carriers 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.

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