



VSOL SMB POF Solution

Updated: December 25, 2024

WWW.VSOLCN.COM

ACCESS THE WORLD

What is POF?

POF Introduction

POF (Power Over Fiber) technology integrates fiber and power wires within a single cable, enabling simultaneous, efficient transmission of optical signals and power. This streamlines installation by removing the need for separate fiber and power cables, reducing both cable volume and space requirements. Notably, POF technology surpasses the traditional 100-meter PoE limit, extending power delivery to 200 meters, offering a more flexible and efficient deployment solution.



POF Products

POF Power Splitter



VHP-110X

- Supports 1 input, multiple outputs, and optional cascade ports
- Each port provides up to 12W, with power delivery up to 200 meters

POF Cable



PoF-C-E

- ITU-T G.657A2 compliant
- SC/UPC connector, available in 3, 20, or 50 meters

Ceiling Mount Optical AP



V2801AX30C-A

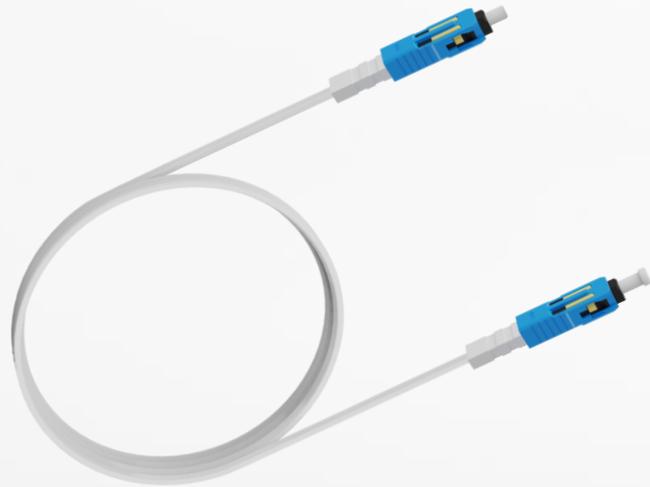
- 1*XPON(PoF)+1*GE(RJ45)+WiFi 6(AX3000)
- Seamless wireless roaming

Optical Gateway

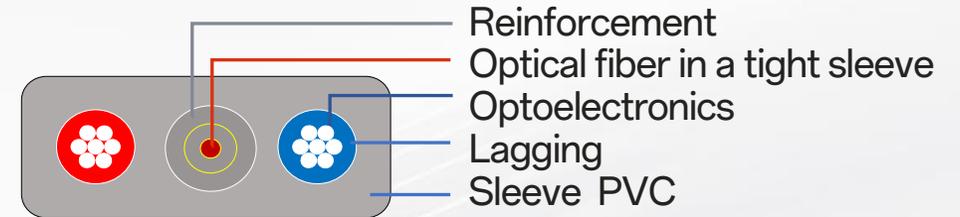


V1600GS

- 1*GPON+2*GE(RJ45)+1*10GE(SFP+)
- Supports software AC

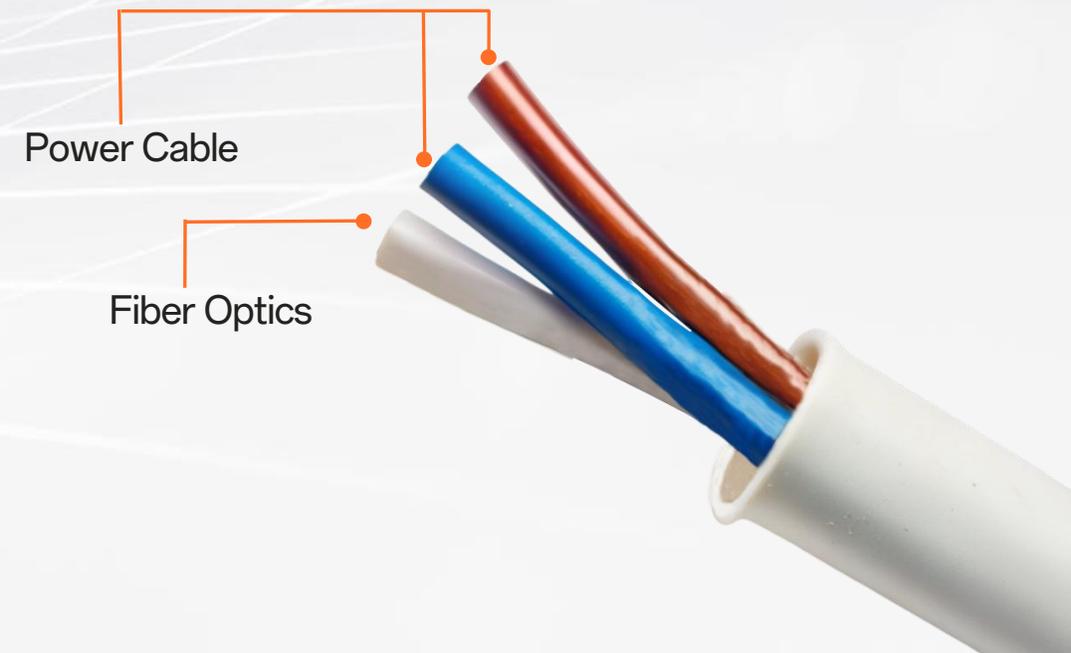


Internal Structure

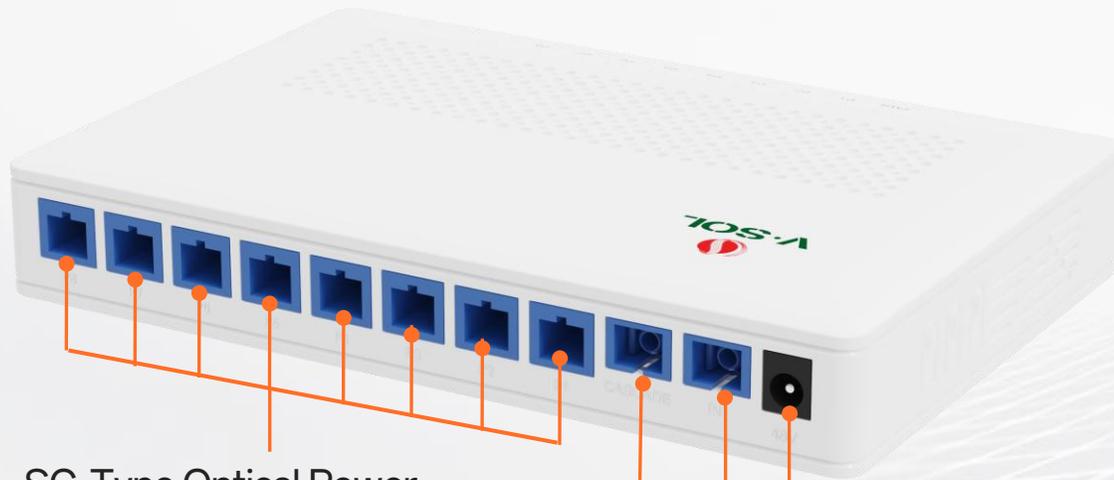


Specifications

Parameters	Flat Composite Cable (Branch Cable)
Fiber Core Number	Single core
Fiber Type	G.657A2
Attenuation	≤0.4dB/km(1310nm), ≤0.3dB/km(1550nm)
Operating Wavelength Range	1260nm ~ 1626nm
Interface Type	SC/UPC
Length specification	3m/20m/50m
Operating Temperature	-20 ~ +80°C
Dimensions	4.2±0.2mm (long axis) ; 1.8±0.2mm (short axis)



POF Power Splitter



SC-Type Optical Power Interface (Output)

SC-Type Optical Interface (Cascade)

Power Supply Interface

SC-type Optical Interface (Input)

Type	VHP-1104	VHP-1105	VHP-1108	VHP-1109
Parameters	1×4 Splitter	1×5 Splitter	1×8 Splitter	1×9 Splitter
Insertion loss of output port (dB)	≤7.8	≤15.6	≤10.9	≤16.5
Insertion loss of cascade port(dB)	—	≤1.8	—	≤2.3
Operating wavelength range(nm)	1260 ~ 1650			
Input Voltage	48V DC			
Number of Outputs	4			8
Rated output Voltage	48V DC			
Rated Output Current	0.25A			
Dimension	180mm*120mm*26mm			
Installation Method	Desktop\Wall Mounted			

Installation location: Desktop, Wall Mounted, Low-Voltage Distribution Box

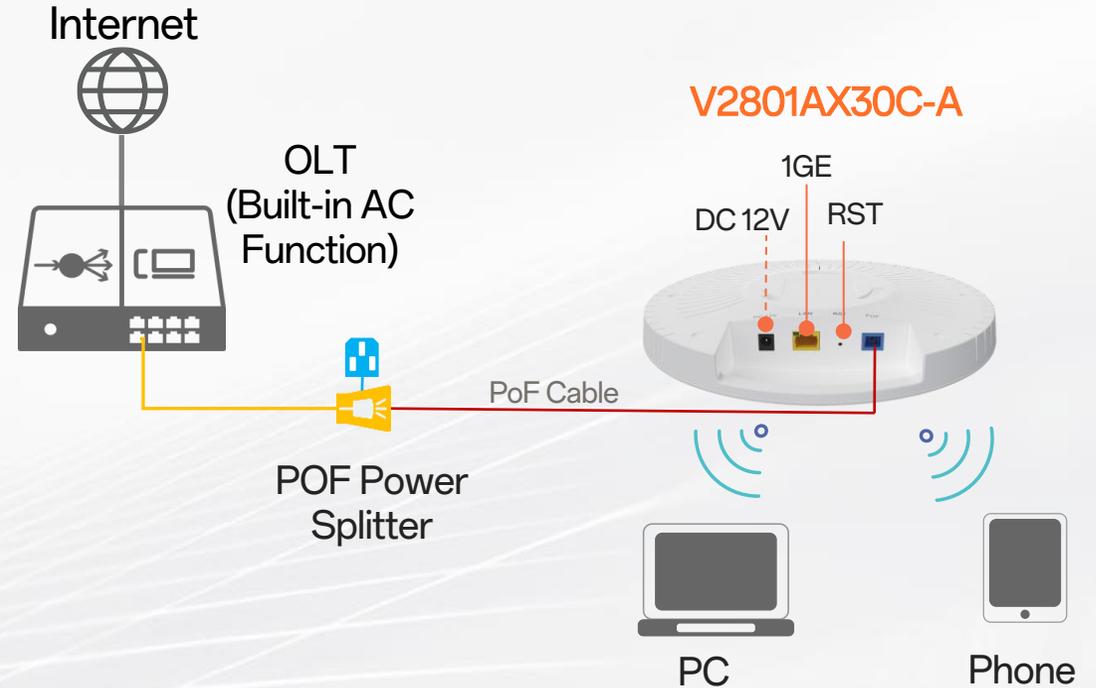
POF Ceiling Mount Optical AP



1XPON+1GE+WiFi6
Ceiling-Mounted ONT



V2801AX30C-A



Compact round ceiling design, sleek and elegant



Centralized PoF power, integrated fiber and power cable keeps network stable and secure



Zero-configuration setup—plug and play, swap and connect instantly



High-performance chipset with built-in 5 antennas, delivering WiFi speeds up to 3000Mbps



Unified management via AC/OLT with seamless roaming support

Installation location: Ceiling

Optical Gateway

V1600GS

- 1*GPON+2*GE(RJ45)+1*10GE(SFP+)
- Built-in VSAC (Software AC)



PON(SC/UPC)

WAN(SFP+)

VSAC

Data Visualization

- Device Topology
- Terminal Data Monitoring

Flexible Authentication

- Local Authentication
- RADIUS Server

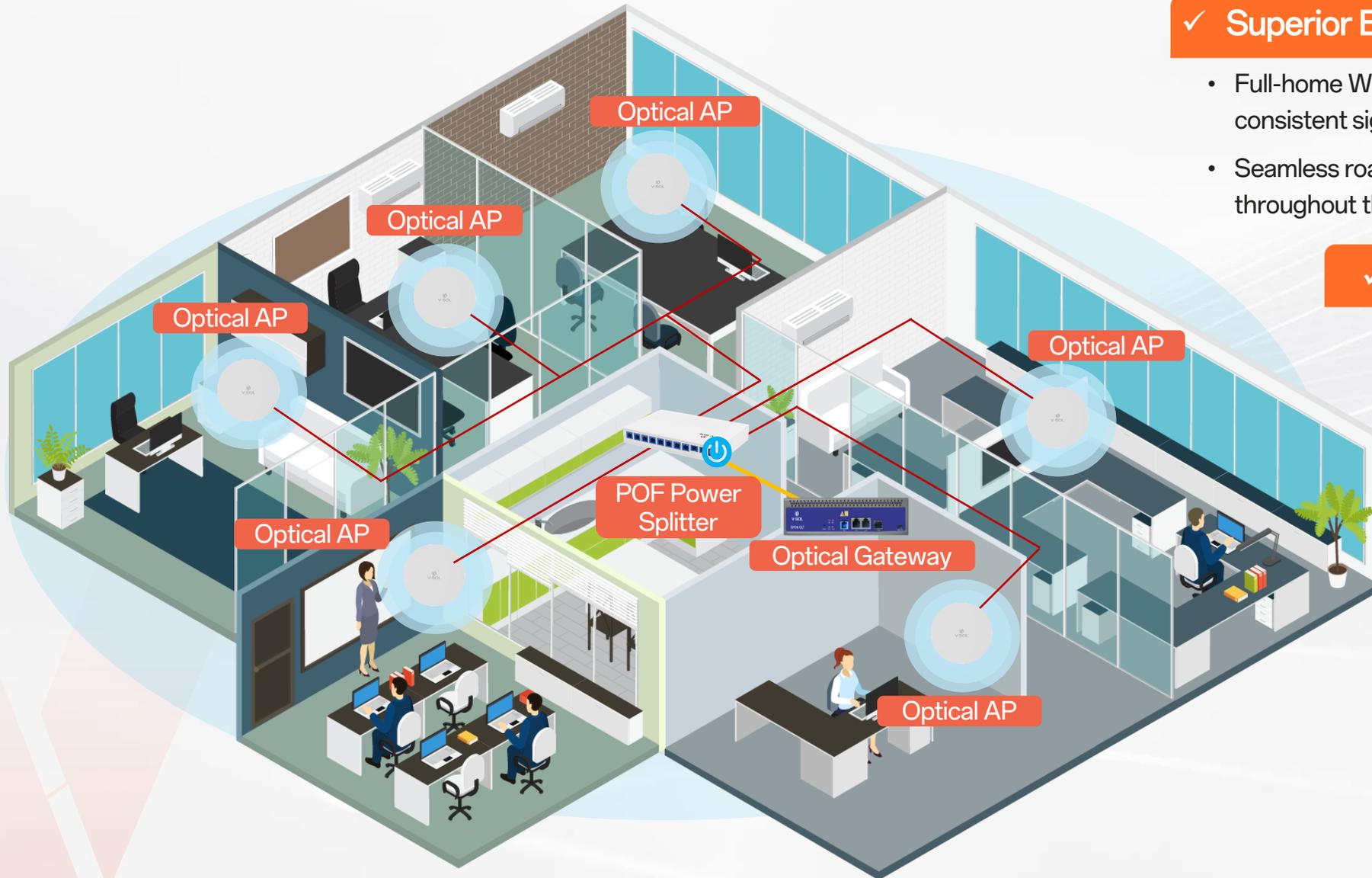
Customization

- Custom Logo and Authentication Information
- Network Policies (Time/Rate)

Signal Optimization

- Coverage-Based
- Capacity-Based

Office Networking Applications



✓ Superior Experience



- Full-home WiFi coverage with strong, consistent signal
- Seamless roaming for high-speed wireless throughout the home

✓ Easy Deployment



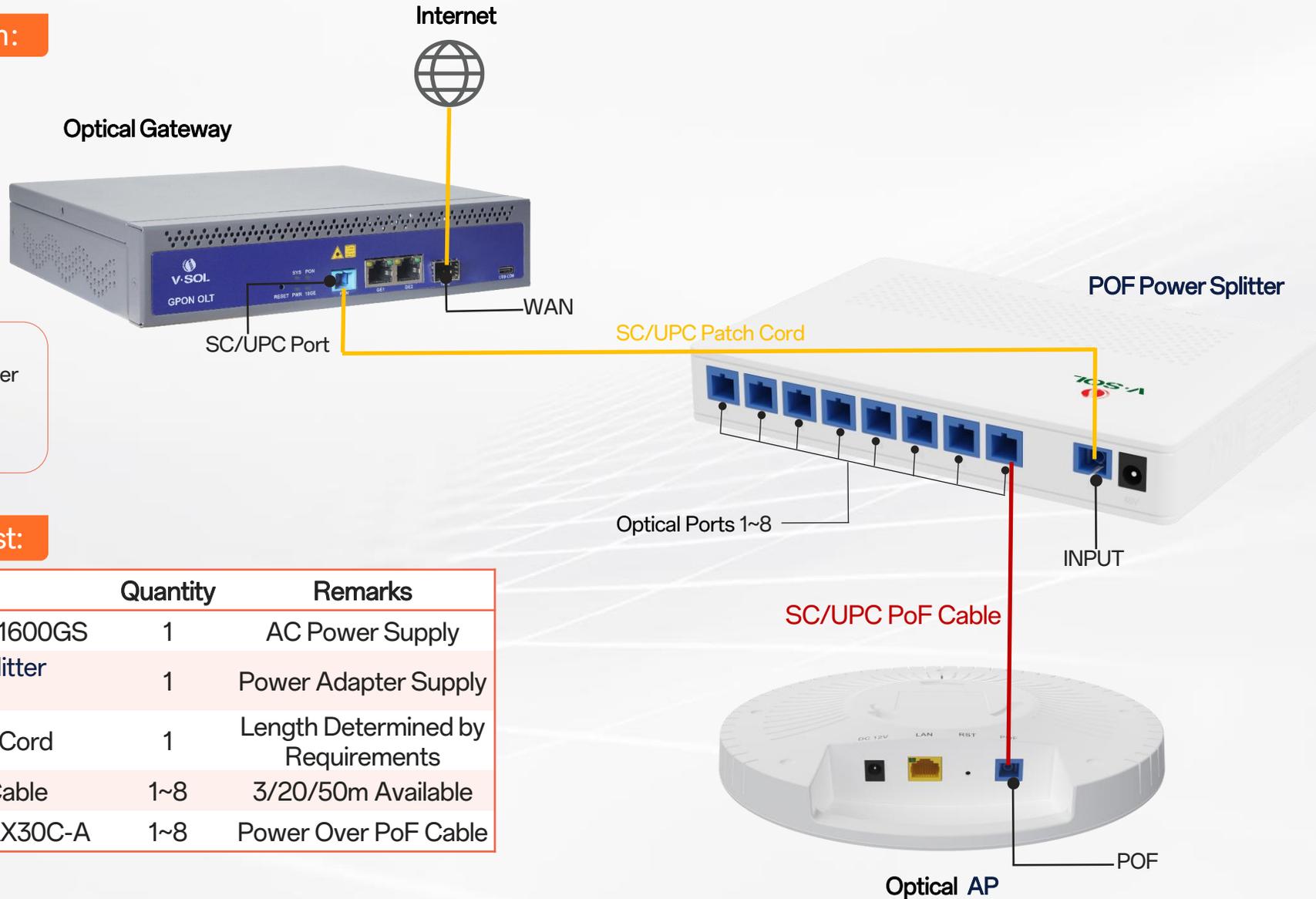
- Integrated fiber and power cable, plug-and-play optical AP
- Highly integrated main device for effortless configuration

— Optical Fiber

— PoF Cable

Typical Network 1: Optical Gateway + 8*Optical AP

Network diagram:



— Optical Fiber
— PoF Cable

Configuration list:

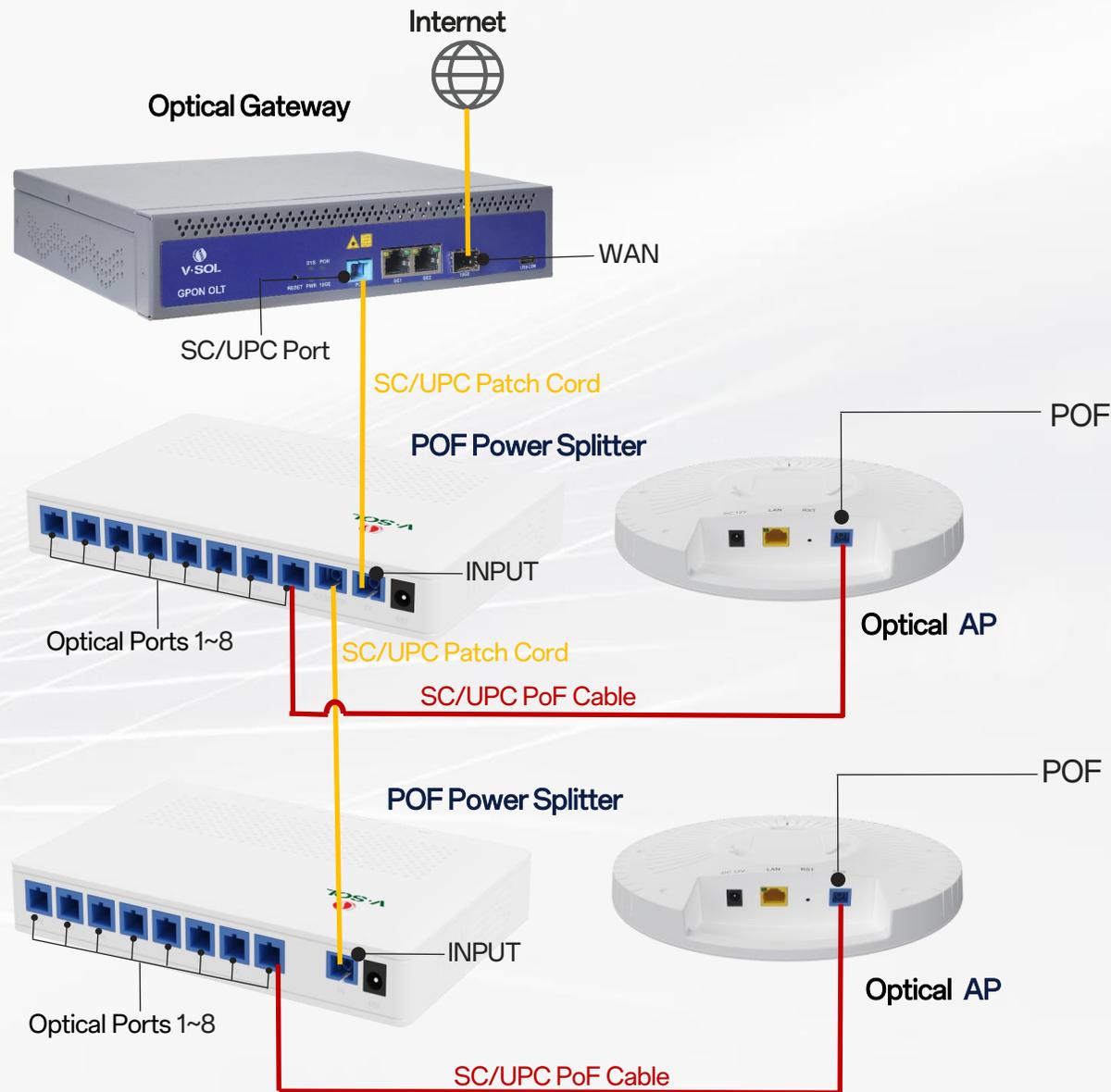
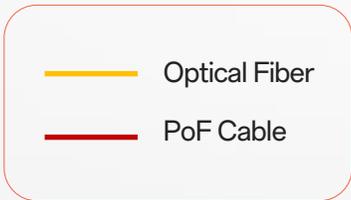
Model	Quantity	Remarks
Optical Gateway V1600GS	1	AC Power Supply
POF Power Splitter VHP-1108	1	Power Adapter Supply
SC/UPC Patch Cord	1	Length Determined by Requirements
SC/UPC PoF Cable	1~8	3/20/50m Available
Optical AP V2801AX30C-A	1~8	Power Over PoF Cable



Typical Network 2: Optical Gateway + 16*Optical AP



Network diagram:



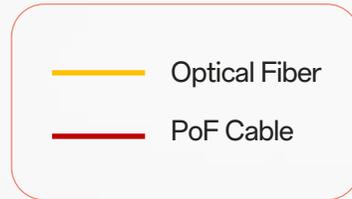
Configuration list:

Model	Quantity	Remarks
Optical Gateway V1600GS	1	AC Power Supply
POF Power Splitter VHP-1109	1	Power Adapter Supply
POF Power Splitter VHP-1108	1	Power Adapter Supply
SC/UPC Patch Cord	2	Length Determined by Requirements
SC/UPC PoF Cable	1~16	3/20/50m Available
Optical AP V2801AX30C-A	1~16	Power Over PoF Cable

Typical Network 3: Optical Gateway + 8*Optical AP + POE MDU

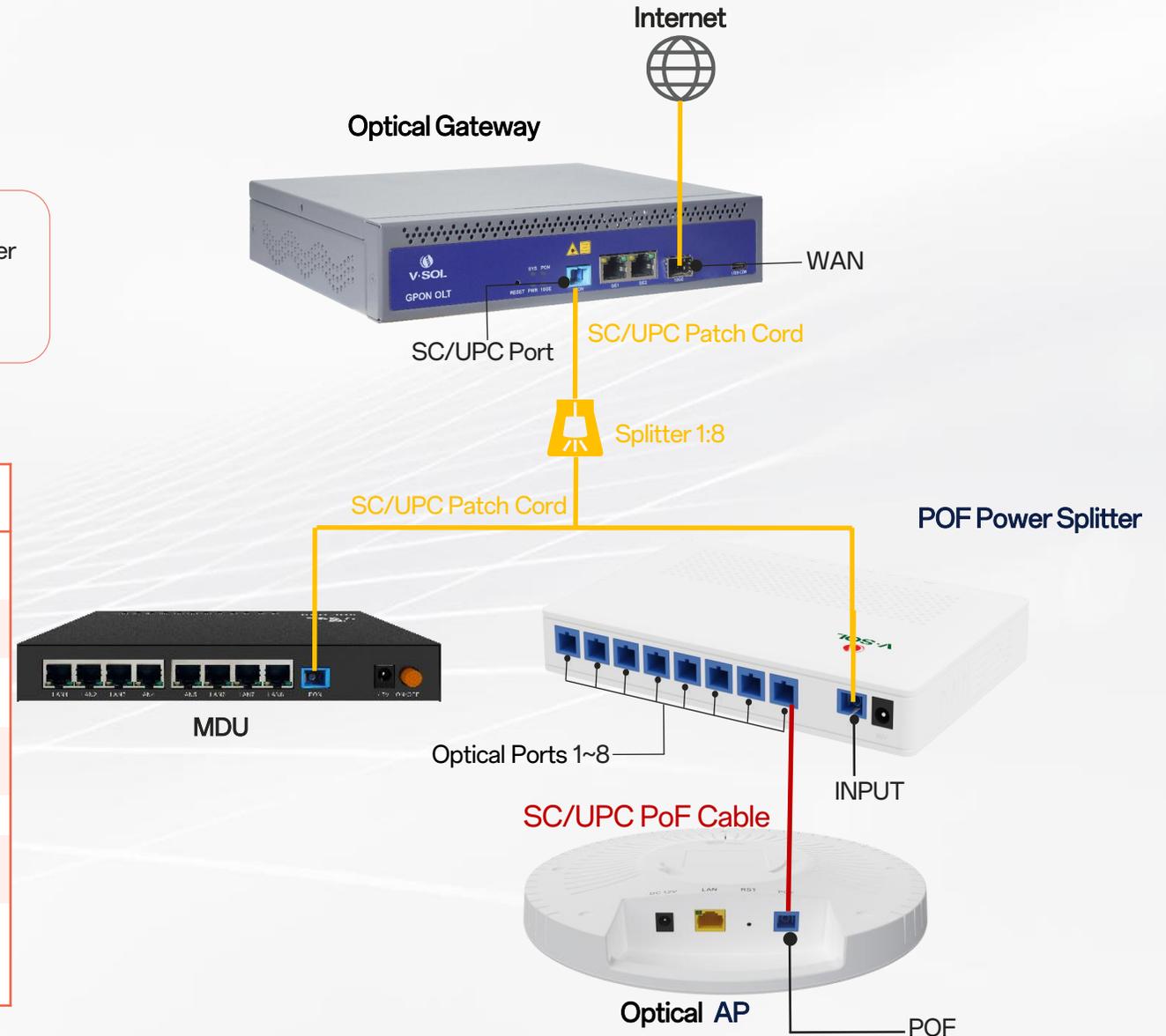


Network diagram:



Configuration list:

Model	Quantity	Remarks
Optical Gateway V1600GS	1	AC Power Supply
Splitter 1:8	1	
POF Power Splitter VHP-1108	1	Power Adapter Supply
SC/UPC Patch Cord	9	Length Determined by Requirements
SC/UPC PoF Cable	1~8	3/20/50m Available
Optical AP V2801AX30C-A	1~8	Power Over PoF Cable
MDU	1-7	Suitable for: V2808-8GL V2808-8GL-PSE





Thank You

Thank you for listening · Welcome to communicate



Visit VSOL Website
Get technical/pre-sales support

WWW.VSOLCN.COM

E-mail: marketing@vsolcn.com, support@vsolcn.com

ACCESS THE WORLD