

— HUAWEI TECHNOLOGIES PRESENTATION

Jesenné novinky od Huawei

Jan Horáček

Senior product manager

HUAWEIPARTNER



Huawei Technologies CZ & SK



Enterprise business group



Prednáška: 10:45 – 11:15

Huawei: Leading Provider of ICT Infrastructure and Smart Devices



Vision and mission

Bring digital to every person,
home and organization for a fully
connected, intelligent world



208,000

Employees



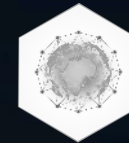
54%

of Employees Work in R&D



170+

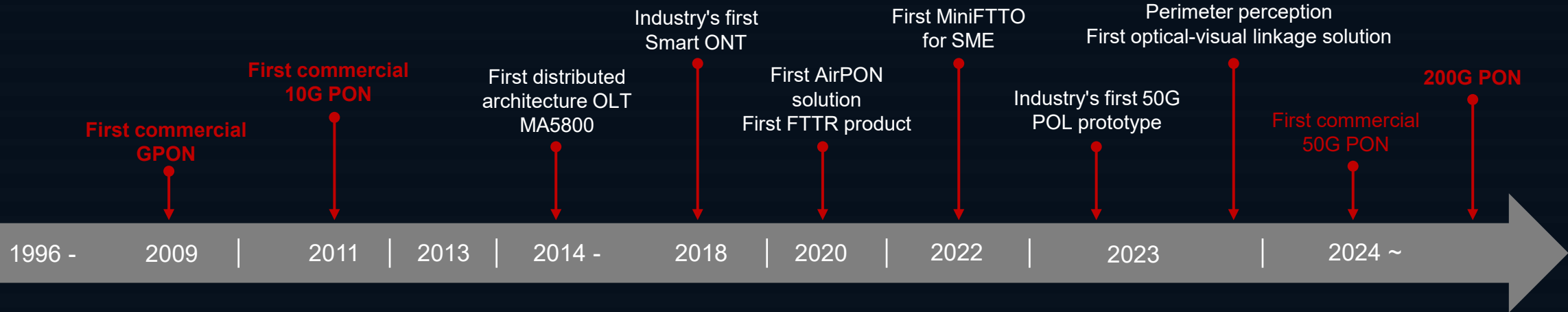
Countries and Regions



3 bn+

People Served

Huawei Leading Optical Access Communications Technology Innovation



Core Innovation and Outstanding Contribution



Huawei Intelligent OptiX Network Wins Three International Technology Innovation Awards in 2021



Huawei All-Optical Access Wins "Four Awards" at the World Broadband Forum 2023 and the European Optical Communication Conference

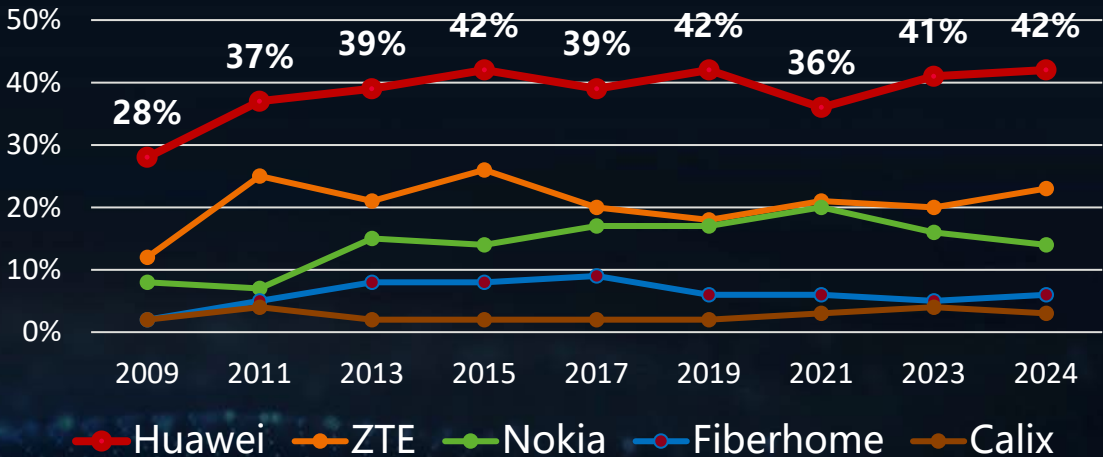


Huawei won the "Outstanding FTTH Solution Award" in 2022, BBWF, for its leading 50G PON innovation.



Huawei iFTTR F50 Wins the Leading Home Wi-Fi Networking Service Award at the Broadband World Forum 2024

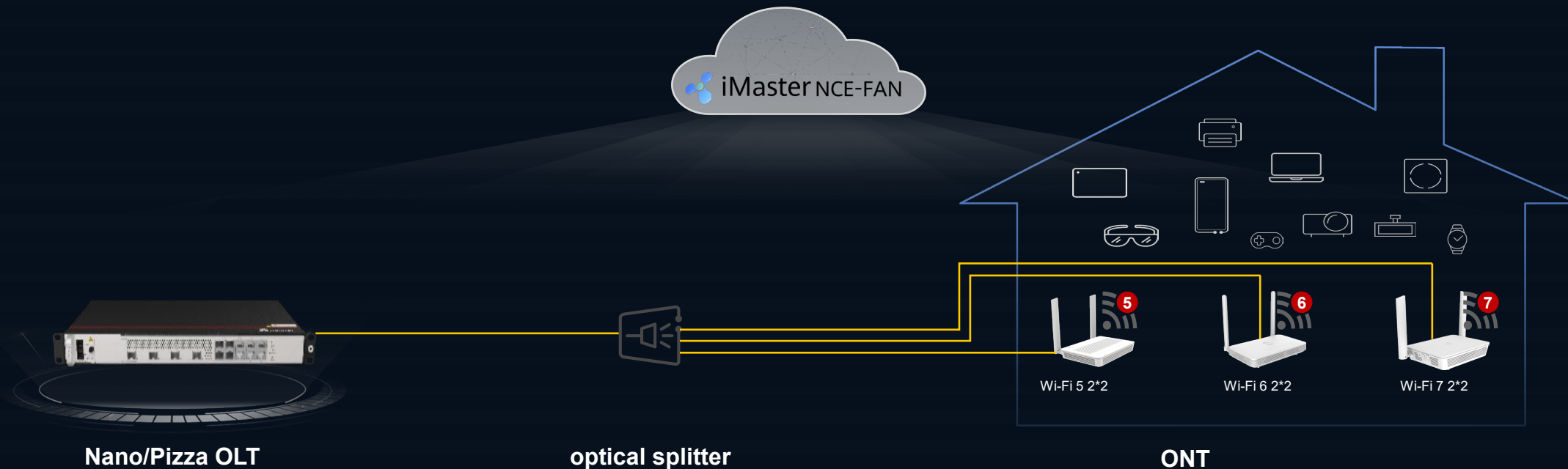
Access Network Market Share: No.1 for 16 Consecutive Years



Huawei Optical Network solution update 2026



Three Easy Solutions Helping ISPs Achieve Business Success



Easy Installation

- **Air-PON:** Simplify the coverage in multiple scenarios
- **All scenarios:** Pole/Wall/Street/Indoor Cabinet

Easy O&M

- **Trouble Free ONT:** Industry's first ONT that supports self-optimization, reducing home visit by 20%. Meanwhile it supports backup Wi-Fi uplink making zero outage of network
- **ONT & AP Anti-theft:** No worry about ONT&AP stolen or transfer to other operator

Easy Selling

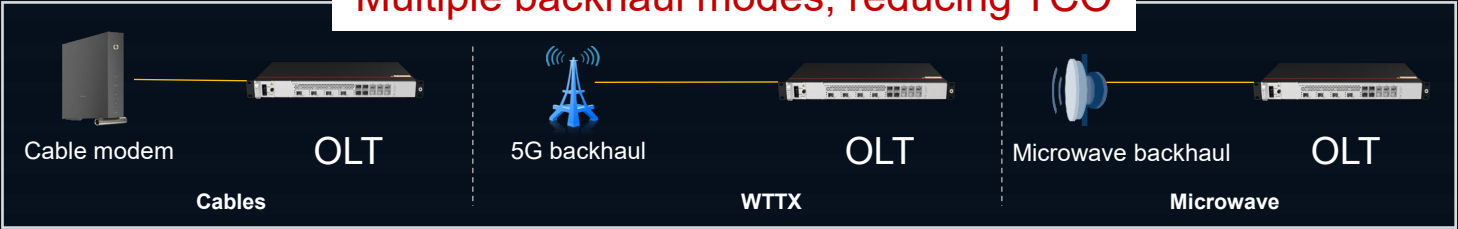
- **INCE-FAN MSP Mode:** Cloud-based deployment, E2E management to reduce the initial investment
- **ONT Pre-configuration:** On-demand customization
- **Common Customized Features:** Supported by default, no need customization

Air-PON Simplify the Coverage in Multiple Scenarios and Reducing TCO

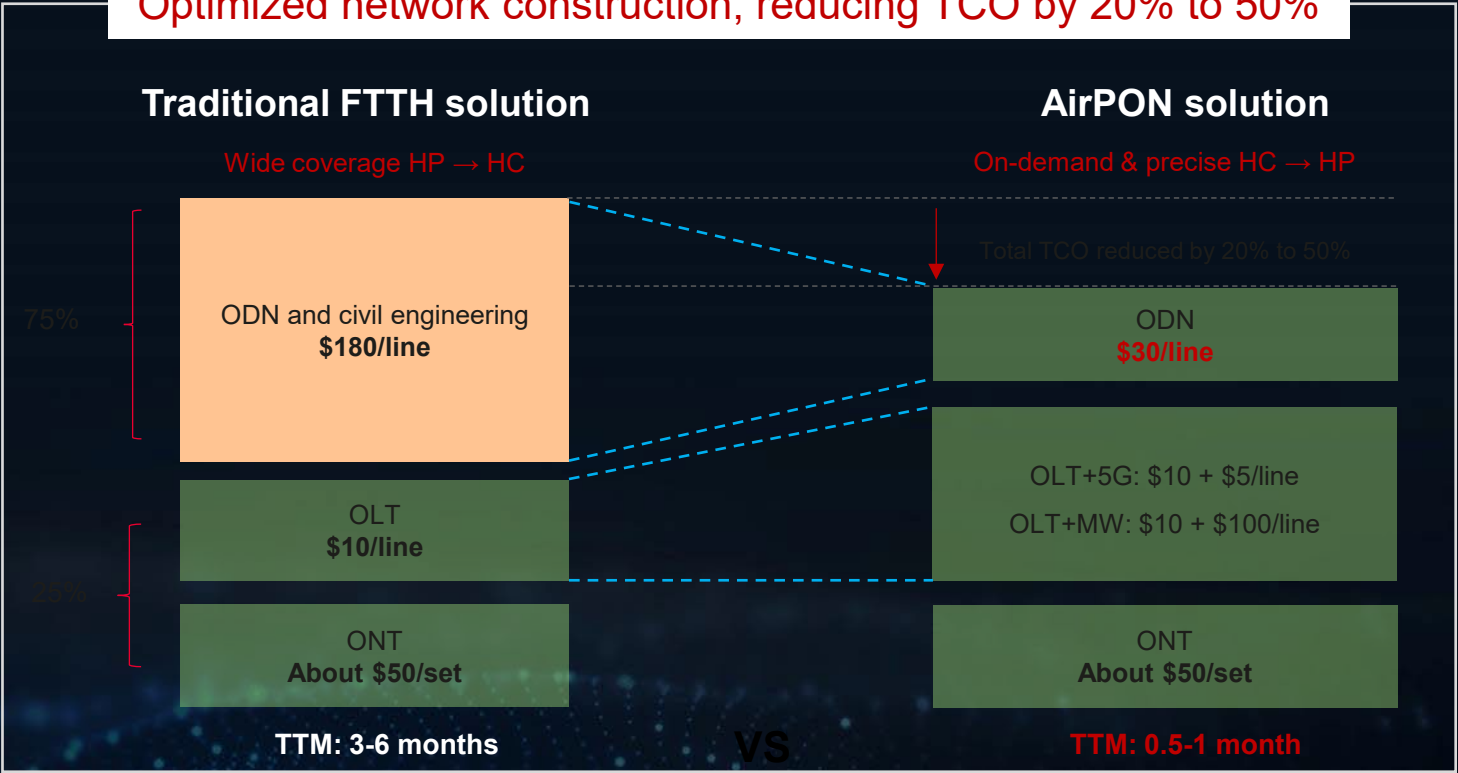
Scenarios with the number of users

Number of users	Device Type	Appearance/model
<2000 HC	2 U, 32 ports Mini OLT	 SmartAX MA5800-X2
<1000 HC	1 U 16-port Pizza OLT	 SmartAX MA5801-FL16-H2  SmartAX MA5801-GP16-H2
<500 HC	1 U 8-port Pizza OLT	 SmartAX MA5801-FL08-H1  SmartAX MA5801-GP08-H3
<200 HC	1 U, 4 ports Nano OLT	 SmartAX MA5801-FL04-H1

Multiple backhaul modes, reducing TCO



Optimized network construction, reducing TCO by 20% to 50%



Simplified and Integrated OLT, Flexible Deployment in All Scenarios

Street Cabinet Installation



SmartAX MA5801 Series

Pole Installation



- Elastic Scaling
- Optimized structure and 3 U device space
- 400 watt cooling

M50 outdoor cabinet



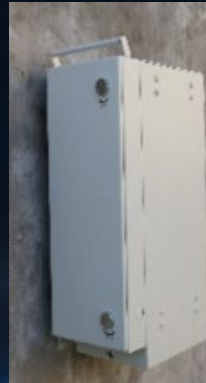
SmartAX MA5801 Series

Boxed in the Building



SmartAX MA5801 Series

Wall-Mounted Installation



SmartAX MA5801 Series

CO Equipment Room

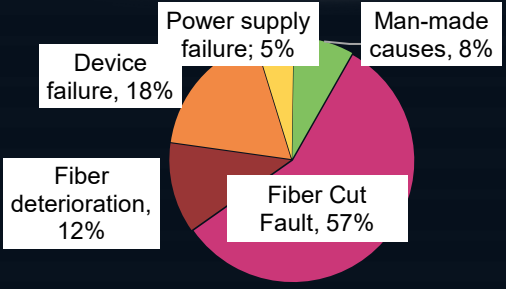


SmartAX MA5801 Series

Trouble Free ONT 2.0, Backup Wi-Fi Uplink Lead to Zero Outage Network

Scenarios

Network Fault Reason



- 

Iraq customer S: 80 fiber cuts per week; repair period > 2 days.
- 

Philippines: 20 typhoons per year, and the repair period is greater than 2 days.
- 

Asia Pacific: Some fiber access trays cannot be closed and cause man-made fiber disconnection.

Customer requirements:
Backup uplink is essential when PON link interrupted.

Trouble Free ONT 2.0 Solution



Values

- 

Differentiated services
↑ **ARPU**
- 

Reduce door-to-door visits
↓ **OPEX**
- 

Uninterrupted network
↑ **Satisfaction**
- 

Complaint Rate
- 

Home Visits Rate
- 

Churn Rate

Commonly Customized Features Supported by Default, No Need Customization

Some commonly customized features are repeatedly customized for the customers.

Long customization period



Heavy & repeated customization workloads



Customized Feature	For ONT	For AP	Remarks/Description
Preset Configuration	Y	Y	Pre-set will be enabled by default for both common codes and distribution codes.
Easy mesh	Y	Y	Easy mesh will be enabled by default for both common codes and distribution codes.
Trouble Free	Y	Y	Trouble-free function will be supported by distribution codes by default, and can be supported by commercial codes by customized demand. The reasonableness of displaying AP locations on the app is now enhanced.
Anti-theft	Y	Y	Collaborate with Home Insight to meet ONT/AP anti-theft requirements by dedicated vendor code.
Uplink Adaptive (PON/ETH)	Y	Y	The ONT uplink mode (PON/ETH) is adaptive and does not need to be configured.
Wan port access configurable	Y	Y	The WAN port access is disabled by default and can be enabled on the WEB GUI configuration of ONT/AP.
Anti-WAN-access	Y	Y	The function (the WAN access be disabled after 8 hours automatically) will be disabled by default, meaning that the WAN port can still be accessed after 8 hours.
Wi-Fi 7 MLO Configurable	Y	Y	The Multi-link operation of Wi-Fi7 ONT/AP will be disabled by default and can be configured on the WEB GUI configuration of ONT/AP or TR-069.
TR181/TR098 protocol configurable	Y	Y	The default protocol is TR098, and the protocol can be changed to TR181 on the WEB GUI configuration of ONT/AP or Pre-set function to meet the interconnection requirements of different ACSs.
Edge ONT supports 2-level account	Already available	Y	The admin account and common account are supported. This function is implemented on APs. In networking scenarios, account names and passwords can be synchronized from Huawei ONTs.

Wi-Fi 6 ONT

EG8145X7-10

EG8041X7-10



Wi-Fi 7 ONT

EN8145B7Ns-10

EG8145B7N-50



EG8145B7-50



Edge ONT

K562-20

K562e-20



NOTICE: Roadmap does NOT represent any commitment.



Huawei SmartAX Series OLT Products

Mini OLT

SmartAX MA5800-X2



- ✓ 9-inch subrack, 2 U
- ✓ 2 slots main control boards and 2 slots for service boards
- ✓ Switching capacity: 248/560Gbps
- ✓ Upstream port: 100GE/25GE/10GE/GE
- ✓ Service port: 32 * GPON/10GPON/Flex-PON, 96 * GE/FE, or 16 * 10GE

H901MPSK-G

New



- X2 100GE control board
- 2 x GE/10GE/25GE (SFP) (default) or 1 x 100GE (QSFP28)

Pizza OLT

SmartAX MA5801-GP16-H2



- ✓ 16 * GPON
- ✓ 4 * 10GE/GE upstream port

SmartAX MA5801-GP08-H3



- ✓ 8 * GPON
- ✓ 4 * 10GE/GE upstream port

SmartAX MA5801-FL08-H1

New



- ✓ 8 * Flex-PON
- ✓ 4 * 10GE/GE upstream port

SmartAX MA5801-FL16-H1/H2

FL16-H2
New



- ✓ 16 * Flex-PON
- ✓ 4 * 10GE/GE upstream port

Nano OLT

SmartAX MA5801-FL04-H1



- ✓ 19-inch subrack, 1 U
- ✓ Switching capacity: 179Gbps
- ✓ Upstream port: 4 * 10GE/GE(o) + 2 * GE/2.5GE(e)
- ✓ Service port: 4 * GPON/10GPON/Flex-PON

FTTH eKit ONTs Portfolio

Wi-Fi 5



FS500D



EG8021V5



EG8145V5

Wi-Fi 6



FS600D



EG8041X6-10



EG8147X6-10

Wi-Fi 7



EG8145B7N-50

Edge ONT



FG736

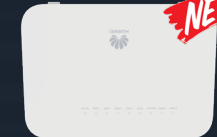


FG630



K562e-10

Others



DN8245X6-10
(SuperVector
Home Gateway)



LG8245X6-10
(Home Gateway)



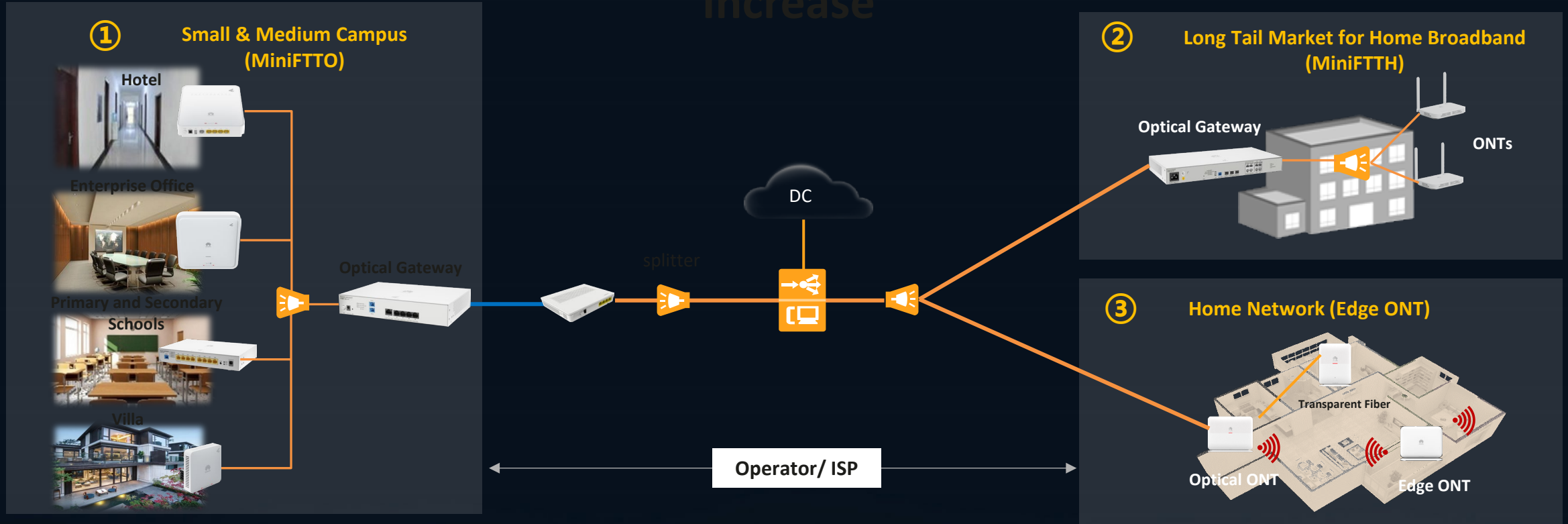
LG8245B7N
(Home Gateway)

Huawei Optical Network Distribution Solution Introduction



Optical Distribution Overview: MiniFTTO + MiniFTTH/FTTH + EdgeONT

Rapid Increase



① MiniFTTO

- **Products:** All MiniFTTO Series
- **Scenario:** Hotel/Office/Primary and Secondary Schools/Villa
- **Sales path:** Huawei -> Distributor -> SME

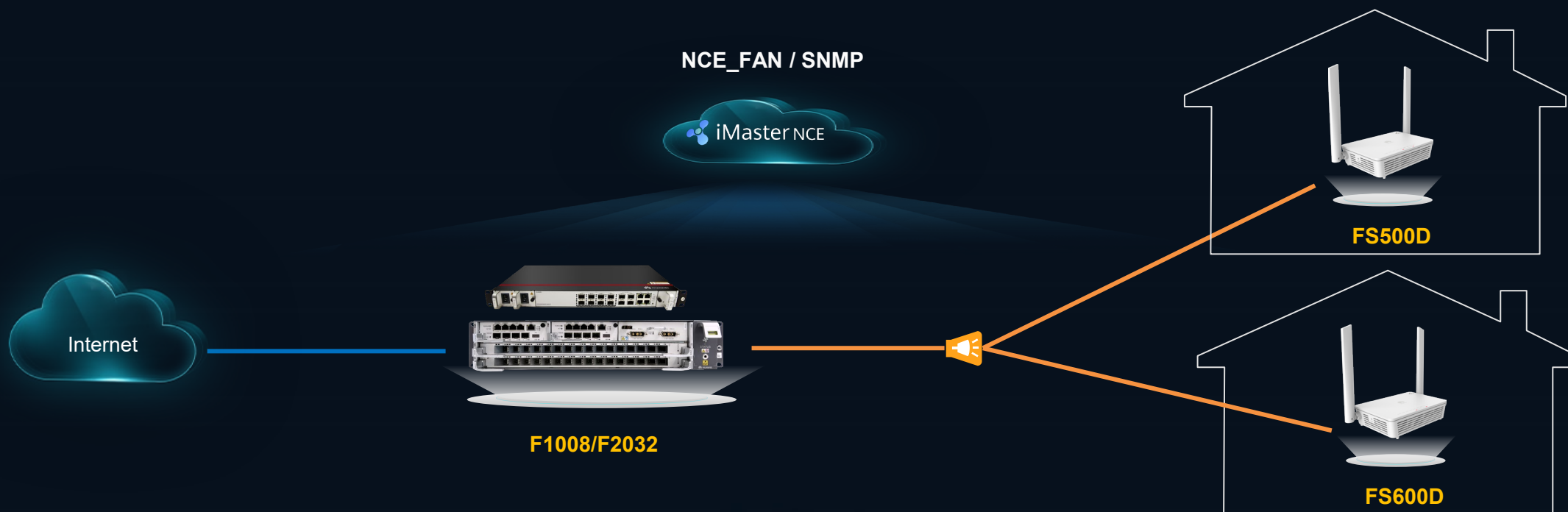
② MiniFTTH

- **Products:** MiniOLT + Cost-efficient ONTs
- **Scenario:** Small ISP market, Long-tail HBB
- **Sales path:** Huawei -> Distributor -> small ISPs

③ Edge ONT

- **Products:** Edge ONT
- **Scenario:** 2C Scenario such as Home/Stores
- **Sales path:** Huawei -> Distributor -> 2c/ISPs Customer/Online Shopping

Huawei MiniFTTH Solution Architecture



Ultimate Experiences

- **FTTH:** Premium gigabit broadband at home over fiber
- **Wi-Fi:** generation upgrade: 4->5->6

Simple & Easy to Use

- **Easy to Install**
- **Easy to Configure**
- **Easy to O&M**

Evolution Smoothly

- **10G PON Ready:** One device can support both GPON and 10G PON, support evolution smoothly
- **All scenarios**

MiniFTTH Solution Products Portfolio

MiniOLT

8*GPON Port



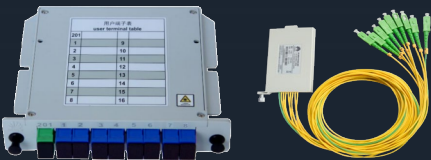
F1008

32*GPON Port

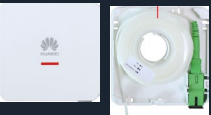


F2032

Optical Component



Splitter



ATB



Self-bonding Invisible Fiber

ONT

Wi-Fi 5



FS500D

Wi-Fi 6



FS600D

Wi-Fi6 Edge ONT



FG630

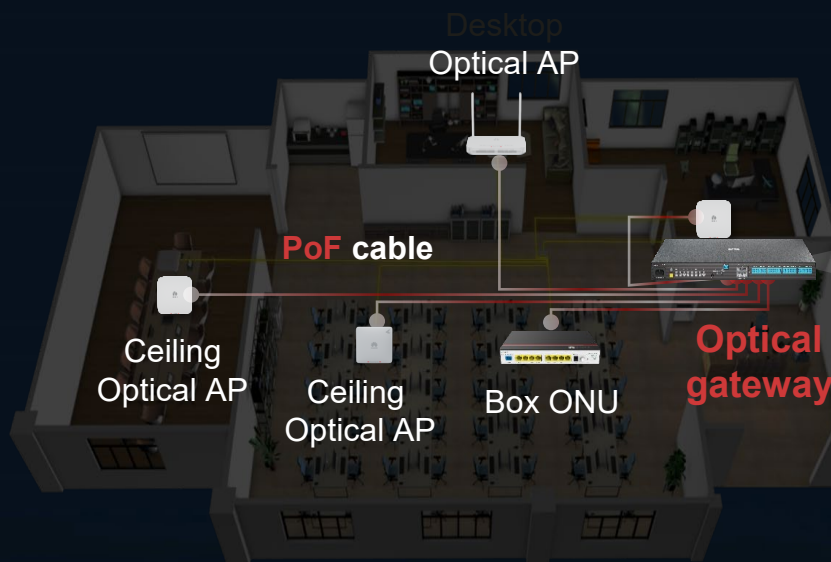
Wi-Fi7 Edge ONT



FG736

Huawei MiniFTTO , The Best Choice For SME Campus

MiniFTTO



- enterprise gateway
- Portal Authentication
- Wi-Fi roaming
- Multiple WAN ports for upstream
- Power supply For AP

**Simple
networking,
low cost**

All in 1
Optical Gateway



3 → 2
Layer networking

**Superior
Experience**

Gigabit Anywhere

2.5Gbps
Bandwidth



1000 Access Capacity
High Concurrence

Easy O&M

APP based Management

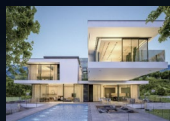


Wi-Fi Optimization

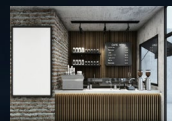
One Click Fault Locating



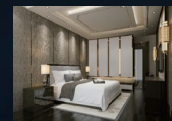
SME
Office



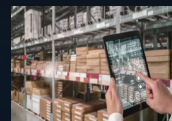
Villa



Stores



Express Hotel



Warehouse



Kindergarten

Typical Application Scenarios For MiniFTTO

Budget Hotel



- Number of rooms: 30–256
- Building characteristics: multi-storey and multi-room, dense rooms, real-time video backhaul
- Typical users: E-sports hotels, Express hotels

SME office



- Number of users: 10–300
- Building characteristics: large open areas + multiple compartments
- Typical users: SMEs in independent office buildings

Commercial Store



- Number of users: 20-300
- Building characteristics: single-story building, dense population, and large burst traffic
- Typical users: chain convenience stores and supermarkets

House/Villa



- Number of users: 5–30
- Building characteristics: multi-floors + multi-rooms, dense personnel and a large number of terminals
- Typical users: medium and large villas, live video streaming

More Scenarios: KTV, Restaurants, etc

Updated MiniFTTO Portfolio, Covering More Scenarios

All-Scenario optical APs and ONUs



F600D

3-in-1 desktop
optical AP



F600C

GE, wifi 6 AP



F100D-4G

4GE | Desktop



F200D-8G

8GE | Information Box



F200D-8P

8GE PoE+

5-in-1 Optical Gateway



F1002-AC-H1

256 ONUs



F1001-DC-H1

32 ONUs



F1001-AC

24 ONUs



Transparent Fiber

SC-XC Patch Cord



PoF Cable

150m



Optical Socket

PoF



Optical Socket

SC-UPC 16 Ports

Thank you!