HUAWEI eKit

Scenario-based Products Manual

June 2024

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SME Network

Smart SME Office Network

A Premium Office Network Is Key to Productivity.

Scenario Analysis
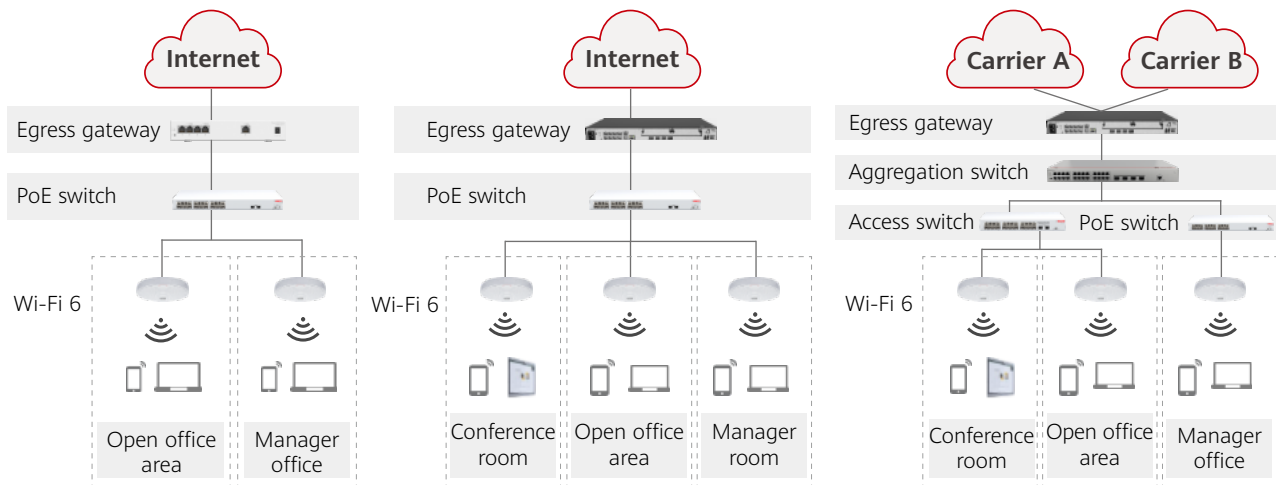
A stable and speedy office network is a must-have.

Internet access must be secure and well-regulated.

Simple deployment and O&M are required, due to a lack of dedicated IT staff.

Scenario-based Product Portfolio

Small and micro enterprise office network (< 20 users)

Internet — Egress gateway — PoE switch — Wi-Fi 6 — Open office area / Manager office

Small enterprise office network (20-100 users)

Internet — Egress gateway — PoE switch — Wi-Fi 6 — Conference room / Open office area / Manager room

Midsize enterprise office network (100-300 users)

Carrier A / Carrier B — Egress gateway — Aggregation switch — Access switch / PoE switch — Wi-Fi 6 — Conference room / Open office area / Manager office

| Scenario-based typical configuration		Small and Micro Enterprise Office Network (< 20 Users)		Small Enterprise Office Network (20-100 Users)		Midsize Enterprise Office Network (100-300 Users)	
		Device Model	Quantity	Device Model	Quantity	Device Model	Quantity
	Egress gateway	S380-L4T1T	1	S380-S8T2T	1	AR720	1
	Security	/	/	/	/	USG6000E-S13	1
	Aggregation switch	/	/	S220-24T4X	1	S310-24ST4X	1 or 2
	Access switch	/	/	/	/	S220-48T4S	3–6
	PoE switch	S110-24LP2SR	1	S110-24LP2SR	2	S220-48P4S/ S310-24PN4X	3
	High-density AP	/	/	/	/	AP661	1
	Settled AP	AP361	2	AP362	8	AP371	10-30
	Wall plate AP	AP160/AP263	1	AP160/AP263	2	AP263	5–10

Product Portfolio Highlights

Unique technology for high-quality wireless networks
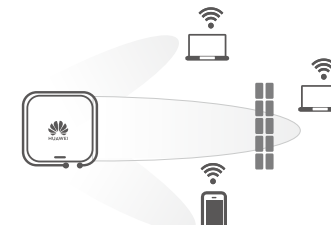
- Smart antennas: one more wall penetrated
- OFDMA and MU-MIMO joint scheduling: 20%+ higher bandwidth

Perpetual PoE for always-on power supply

- The switch supports perpetual PoE, which provides uninterrupted power to connected cameras even when the switch is rebooting. This ensures always-on cameras.

Simplified deployment and O&M with the HUAWEI eKit App

- Network-wide deployment in minutes by scanning one device code
- Wi-Fi auto-optimization for always-optimal performance

User Benefits

High-quality Wi-Fi 6/Wi-Fi 7 network	• Wi-Fi 6/Wi-Fi 7 APs have smart antennas inside, providing always-on signals for users and offering a 20% greater coverage range. • OFDMA and MU-MIMO joint scheduling enables 20% higher bandwidth in multi-user scenarios than the industry average.
Always-optimal wireless network	• The Wi-Fi network is auto-optimized at scheduled time every day to keep Wi-Fi in its best state.
Internet access management	• The AR converged gateway integrates Internet access management, making sure that employees focus on their work during on-duty time.
Always-on video security	• The switch supports perpetual PoE, providing uninterrupted power to connected cameras even when the switch is rebooting. • This ensures always-on cameras for campus security around the clock.
Data security	• WPA3 with the 192-bit security mode greatly enhances encryption and ensures user data security.

Success Story

Network transformation and upgrade at a company

Improve the office network topology to facilitate management and capacity expansion.

Optimize the wireless network performance to improve the work efficiency of employees.

Enhance network security and effectively authenticate internal and external users.

Device Type	Converged gateway	Core switch	Access switch	PoE switch	Wall plate AP	Ceiling-mounted AP
Device Model	S380	S310-24T4S	S110-24T2SR	S220-48P4S	AP263	AP362

Ultra-Stable Commercial Store Network

A Stable Store Network Is a Competitive Edge.

Scenario Analysis

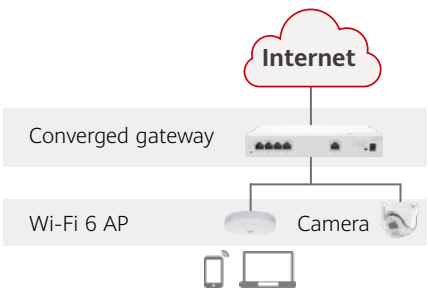A stable network is required to ensure payment success every time and at a low latency.

The network must centrally support and isolate multiple services (e.g., cashiering, video security, and guest Wi-Fi).

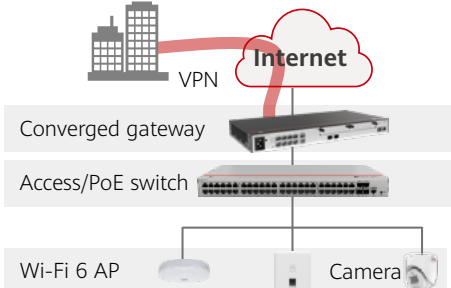Network configuration and O&M must be simple.

Scenario-based Product Portfolio

Small store network

Internet

Converged gateway

Wi-Fi 6 AP   Camera

Device Type	Device Model	Quantity
Egress gateway	S380-L4P1T/S380-S8P2T	1
Wi-Fi 6 AP	AP361	1

Midsize/Large store network

VPN   Internet

Converged gateway

Access/PoE switch

Wi-Fi 6 AP   Camera

Device Type	Device Model	Quantity
Egress gateway	AR720	1
Access switch	S220-48T4S	1
PoE switch	S220-48P4S	1 or 2
Wi-Fi 6 AP	AP661/362/361	10-30
Wi-Fi 6 AP	AP160/263	2 to 4

Product Portfolio Highlights

The S380 high-performance multi-service gateway offers a 2-time faster forwarding speed and ensures smooth HD videos on 100 channels.

The S110 offers DIP switch modes to easily isolate cashiering, video security, and guest Wi-Fi networks.

Wi-Fi 6 APs have smart antennas inside, providing always-on signals for users and offering a 20% greater coverage range.

User Benefits

High-quality wireless network

The superfast Wi-Fi 6 network features zero packet loss during roaming, provides always-on signals for users, and offers a 20% greater coverage range.

Multi-network convergence

Multiple networks are converged into one for easier deployment and lower costs, while also securely isolated through DIP switch modes.

Easy O&M

The HUAWEI eKit App supports barcode scanning–based deployment and remote O&M, achieving hassle-free store network rollout.

Success Story

Bandwidth limiting and Internet access control: Internet access bandwidth of terminals is managed for key service experience assurance.

Egress security protection: The gateway integrates the intrusion prevention system (IPS) and antivirus (AV) functions to protect the network security of dealerships.

Simplified O&M: Network visibility on the cloud enable network management anytime, anywhere.

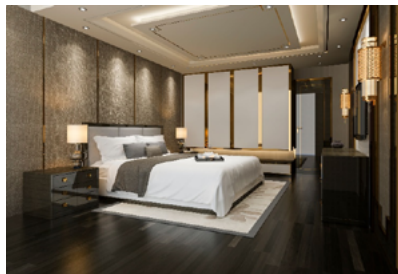|	Device Type	Converged gateway	Core switch	Access switch	PoE switch	Wall plate AP	Ceiling-mounted AP
A supermarket	Device Model	AR720	S310-24T4S	S220-48T4S	S220-48P4S	AP263	AP362

Ultra-High-Speed Hotel Network
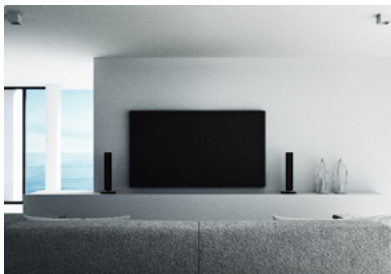
Scenario Analysis

Requirement 1:
smooth Internet access experience at guest rooms

Good Wi-Fi experience, no awareness of handover
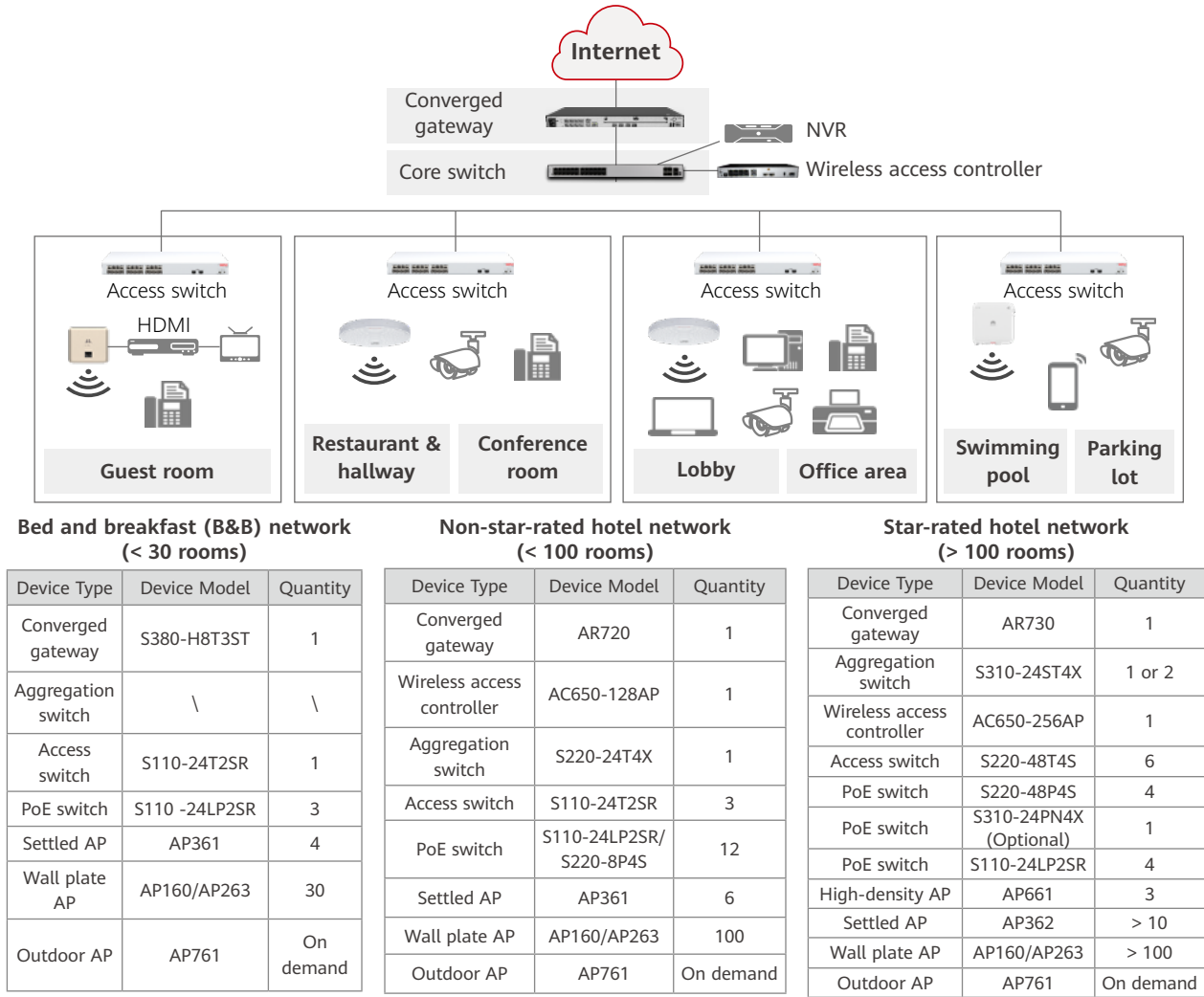
Requirement 2: always-on video security

Interruption-free security terminals (e.g., cameras)

Requirement 3: flexible user authentication & management

Portal authentication for guest access

Scenario-based Product Portfolio

Internet

Converged gateway

NVR

Core switch

Wireless access controller

Access switch — HDMI

Access switch

Access switch

Access switch

Guest room

Restaurant & hallway | **Conference room**

Lobby | **Office area**

Swimming pool | **Parking lot**

Bed and breakfast (B&B) network (< 30 rooms)

Device Type	Device Model	Quantity
Converged gateway	S380-H8T3ST	1
Aggregation switch	\	\
Access switch	S110-24T2SR	1
PoE switch	S110 -24LP2SR	3
Settled AP	AP361	4
Wall plate AP	AP160/AP263	30
Outdoor AP	AP761	On demand

Non-star-rated hotel network (< 100 rooms)

Device Type	Device Model	Quantity
Converged gateway	AR720	1
Wireless access controller	AC650-128AP	1
Aggregation switch	S220-24T4X	1
Access switch	S110-24T2SR	3
PoE switch	S110-24LP2SR/ S220-8P4S	12
Settled AP	AP361	6
Wall plate AP	AP160/AP263	100
Outdoor AP	AP761	On demand

Star-rated hotel network (> 100 rooms)

Device Type	Device Model	Quantity
Converged gateway	AR730	1
Aggregation switch	S310-24ST4X	1 or 2
Wireless access controller	AC650-256AP	1
Access switch	S220-48T4S	6
PoE switch	S220-48P4S	4
PoE switch	S310-24PN4X (Optional)	1
PoE switch	S110-24LP2SR	4
High-density AP	AP661	3
Settled AP	AP362	> 10
Wall plate AP	AP160/AP263	> 100
Outdoor AP	AP761	On demand

Product Portfolio Highlights

High bandwidth

- **Scenarios:** hotels requiring bandwidth of higher than 500 Mbps
- **Advantage:** Typically, Wi-Fi 5 APs cannot offer 500 Mbps, which is a waste of resources. However, Wi-Fi 6 APs can normally provide 800 Mbps to 900 Mbps.

High concurrency

- **Scenarios:** high-density areas such as the hotel lobby, hotel conference room, restaurant, bar, and karaoke box
- **Advantage:** In these scenarios, many guests use Wi-Fi at the same time. Due to limited performance and small user capacity, Wi-Fi 5 affects the cashiering service and user experience.

Low latency

- **Scenarios:** Guests require low network latency to play online games or have video conferences.
- **Advantage:** Wi-Fi 6 ensures smooth gaming and video conferencing experience.

User Benefits

High-quality Wi-Fi 6 network	Wi-Fi 6 APs have smart antennas inside, providing always-on signals for users and offering a 20% greater coverage range. - OFDMA and MU-MIMO joint scheduling enables 20% higher bandwidth in multi-user scenarios than the industry average.
Always-optimal wireless network	- The Wi-Fi network is auto-optimized at scheduled time every day to keep Wi-Fi in its best state.
Bandwidth limiting and Internet access management	- Internet access bandwidth management is performed on terminals for key service experience assurance, thereby ensuring guests' Internet access experience is not affected.
Always-on video security	- The switch supports perpetual PoE, providing uninterrupted power to connected cameras even when the switch is rebooting. - This ensures always-on cameras for campus security around the clock.
Intelligent O&M	- HUAWEI eKit App can perform remote and visualized O&M on network devices and supports one-click wireless network optimization.

Success Story

A Resort Hotel

Multiple service systems of the hotel are carried in a unified manner, and services are isolated to reduce costs.

Based on the principle of "experience first", Internet access and smart services come with real-time assurance, and network security is guaranteed.

The remote location of the hotel requires graphical intelligent O&M to reduce fault rectification time and improve efficiency.

Device Type	Converged gateway	Core switch	Access switch	PoE switch	Wall plate AP	Ceiling-mounted AP
Device Model	AR730	S310-24T4X	S220-48T4S	S220-48P4S	AP263	AP362

Ultra-Simplified Commercial Real Estate Network

Scenario Analysis

Commercial real estate needs an atheistic, fast, stable and easy wireless network.

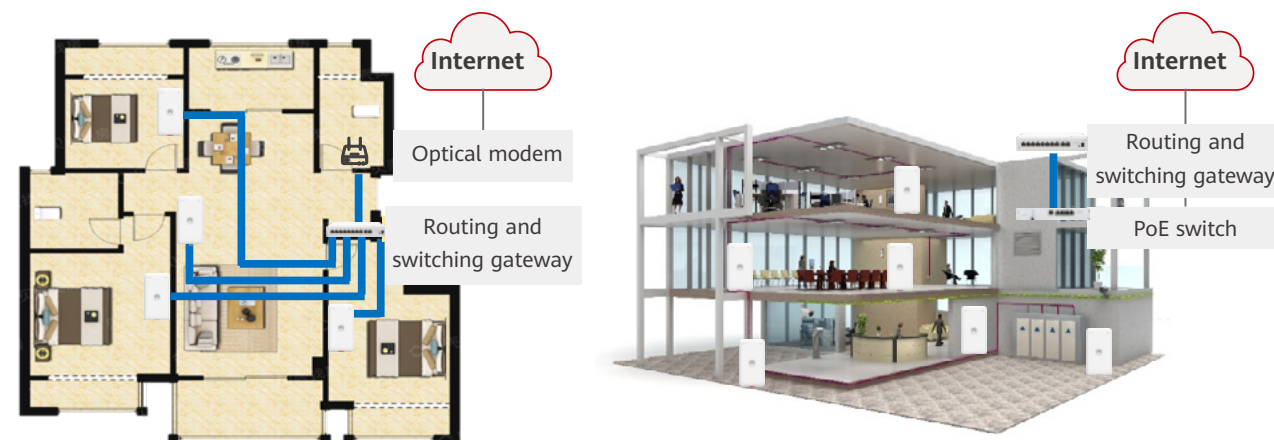| Lack of aesthetics	Slow wireless network	Frequent disconnection during roaming	Complex provisioning
• Difficult to match the decoration style • Disordered cabling, poor aesthetics	• Weak signals at corners • Poor video and gaming experience	• Unstable STA roaming • Frequent disconnection upon roaming	• Difficult installation, damage to decoration • Complex commissioning, heavy reliance on product manuals

Scenario-based Product Portfolio

Internet

Optical modem

Routing and switching gateway

Internet

Routing and switching gateway

PoE switch

Scenario-based typical configuration

Single-story house network

Device Type	Device Model	Quantity
Routing and switching gateway	S380-S8P2T	1
Wi-Fi 6 AP	AP160/AP263	6

200 m2, 4 bedrooms and 2 living rooms

Multi-story house (villa) network

Device Type	Device Model	Quantity
Routing and switching gateway	S380-S8T2T	1
PoE switch	S110-24LP2SR	1
Wi-Fi 6 AP	AP361	4
Wi-Fi 6 AP	AP160/AP263	8
Wi-Fi 6 AP	AP761	1

4-story villa: 6 bedrooms, 3 living rooms, 1 exercise room, 1 garage

Product Portfolio Highlights

Ultra-thin wall plate AP: a perfect mix of technology and aesthetics

• Only 8 mm thick, crafted edges, sleek and aesthetic design
• 360° omnidirectional heat dissipation, never-overheated comfortable shell, never color change

Smart antenna for full coverage without blind spots
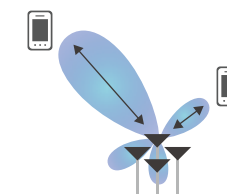
• Dual-polarized high-performance smart antennas
• Always-on signals for users, 20% wider coverage range
• More focused signals, one more wall penetrated

Converged gateway for fast, secure Internet access

• Up to 2 Gbps bandwidth, zero-wait fast Internet access
• All-in-one device (routing + switching + PoE + wireless AC)

User Benefits

Multi-color selection, ultra-thin body, and impressive aesthetics	Ubiquitous wireless coverage, strong signals, and one more wall penetrated	All-in-one high-performance gateway for fast Internet access

Success Story

Wireless coverage in a villa (Jinan, China)

High-quality Wi-Fi 6 network:

• 3000 Mbps bandwidth for fast network speed, good experience, and video download in seconds
• Built-in smart antennas for always-on signals for users
• AI roaming for uninterrupted network connections or videos
• 3-network integration (Internet access + video security + IPTV)

Device Type	Converged gateway	Access switch	PoE switch	Wall plate AP	Ceiling-mounted AP
Device Model	S380-S8T2T	S110-24T2SR	S110-24LP2SR	AP263	AP362

Smart Factory/Warehouse Network

Scenario Analysis

Large-sized common warehouse
- High storage racks with many goods, severe signal shielding between aisles
- Always-on handheld terminals during user mobility, seamless roaming

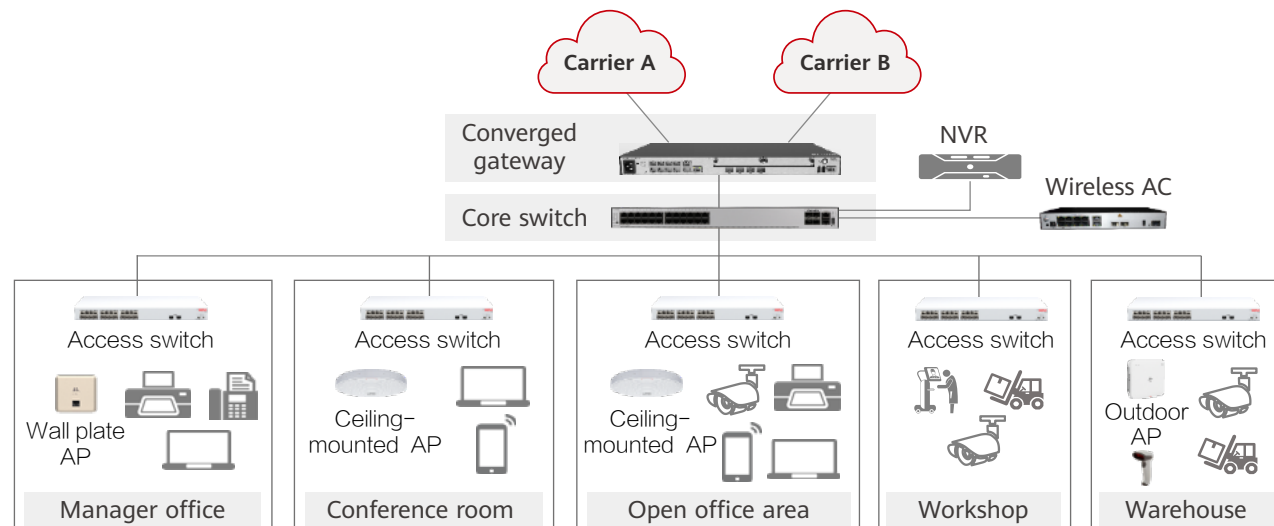**Cold storage warehouse for fresh products**
- Adaptation to harsh operating temperature and humidity
- Normal working at low temperatures, IP68 protection

Smart warehousing
- Fast-moving AGVs
- Seamless roaming, zero packet loss
- RFID IoT asset management

Scenario-based Product Portfolio

	Deployment Location	Device Type	Device Model	Quantity
Scenario-based typical configuration	Internet egress	Converged gateway	AR720	2
	Core layer	Switch	S310-24ST4X	1 or 2
		Wireless access controller	AC650-128AP	1
	Access layer	Switch	S220-48T4S	2
		Switch	S220-48P4S	2 or 3
		Switch	S220-8P4S	2 or 3
		Switch	S310-24PN4X	1
	AP	Settled AP	AP361	10-15
		Wall plate AP	AP160/AP263	5
		High-density AP	AP661	3-5
		Outdoor AP	AP761	4-6

Product Portfolio Highlights

Smart roaming for zero disconnections during mobility
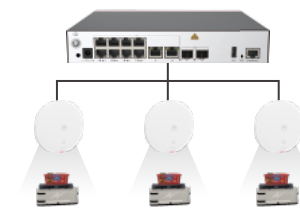
Each terminal accesses the network from the AP with the best signal and enjoys the best throughput.

Long-term stability in harsh environments due to extended temperature range, waterproof, and dustproof design
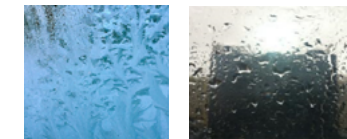
- Normal working at -40°C to +65°C
- IP68 dustproof and waterproof

Network security and reliability

Blocklists/Trustlists and isolation policies are set to prevent unauthorized access to the warehouse and production network for robust security and reliability.

User Benefits

No coverage hole
- Wi-Fi 6 APs have smart antennas inside, providing always-on signals for users (no weak signals even at warehouse corners) and offering a 20% greater coverage range.

Seamless roaming
- AGVs work stably and roam with zero packet loss, improving the overall warehouse efficiency.

Always-optimal wireless network
- One-click intelligent radio and power optimization for better anti-interference and stronger network signals
- Auto-optimization at scheduled time

Secure and reliable network
- Strict control of access to the warehousing network, denied access of unauthorized terminals
- Perpetual PoE for interrupted power to cameras

Simple O&M
- HUAWEI eKit App for real-time view of device status, timely alarm reporting, fast issue resolution, and hassle-free remote O&M

Success Story

A motor R&D and production base
- Easy to use, fast deployment, and simplified O&M
- High quality, high performance, and significant energy savings
- Wi-Fi 6 smart antenna technology for high bandwidth and low latency; soft handover algorithm, intelligent application acceleration, and AP load sharing for wireless experience assurance

Device Type	Converged gateway	Core switch	Aggregation switch	Access switch	Wireless AC	Wall plate AP	Ceiling-mounted AP
Device Model	AR720	S310-24T4X	S310-24T4S	S220-48T4S/48P4S	AC650-128AP	AP263	AP362

Green and Secure Primary and Secondary Education Network

Scenario Analysis

Kindergarten

Primary school

Secondary school

Office scenario	Public areas such as auditoriums and entrance halls	Teaching scenario	Video security scenario	Outdoor sports field and parking lot
The network must be smooth and secure, fending off virus infection during the download of course resources from the Internet or USB flash.	**Wireless coverage must be ubiquitous without blind spots** in public areas such as auditoriums and entrance halls.	**High-density access must be smooth and secure in any scenario,** including ordinary classrooms (secure Internet access for teachers and unified wireless access of multimedia devices), e-schoolbag scenarios (wireless access for 50–60 concurrent users), and digital reading rooms (denied access to illegal websites).	**The network needs to be stable to ensure always-on video security** with a large number of cameras. Doing so can effectively trace campus-wide security incidents if any.	**The network must work stable for a long time in outdoor harsh environments (with strong sunlight and heavy rain)** like the sports field, outside the teaching buildings, and parking lots.

Scenario-based Product Portfolio

Internet

Education MAN

NVR

Converged gateway

Core switch

WLAN AC

In-building aggregation switch

In-building aggregation switch

In-building aggregation switch

Access switch

Access switch

Access switch

AP

AP

Outdoor AP

Video security

Teacher's office

Classroom & auditorium

Sports field & parking lot

Video security

Scenario-based typical configuration
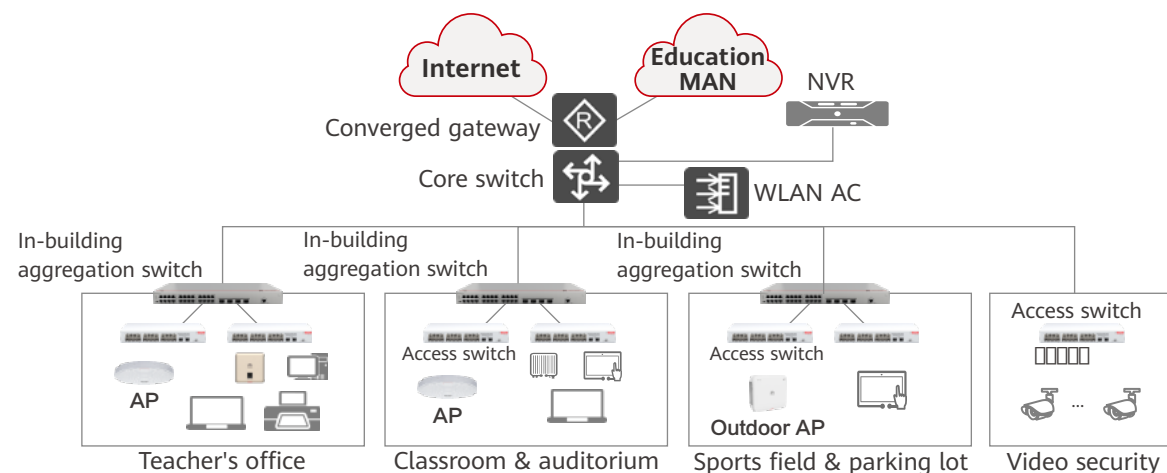
Secondary school campus network

Device Type	Device Model	Quantity
Converged gateway	AR720	1
Core switch	S530-24ST4XE	1 or 2
Wireless AC	AC650-128AP	1
Aggregation switch	S220-24T4X	2
Access switch	S220-48T4S	4
Video security-tailored switch	S220-8P4S	8
PoE switch	S110-24LP2SR/ S310-24PN4X	8
Settled AP	AP361	50
High-density AP	AP661	8
Wall plate AP	AP160/AP263	6
Outdoor AP	AP761	4

Primary school campus network

Device Type	Device Model	Quantity
Converged gateway	AR720	1
Core switch	S310-24T4X	1
Wireless AC	AC650-128AP	1
Aggregation switch	S220-24T4X	2
Access switch	S220-48T4S	4
Video security-tailored switch	S220-8P4S	8
PoE switch	S110-24LP2SR	8
Settled AP	AP362	50
Settled AP	AP361	8
Wall plate AP	AP160/AP263	6
Outdoor AP	AP761	4

Kindergarten network

Device Type	Device Model	Quantity
Converged gateway	AR720	1
Core switch	S310-24T4X	1
Access switch	S220-48T4S	1 or 2
Video security-tailored switch	S110-16LP2SR	2
PoE switch	S110-8P2ST	2
Settled AP	AP361	15
Wall plate AP	AP160/AP263	3

*The actual device quantity is determined according to the actual project.

Product Portfolio Highlights

Wi-Fi auto-optimization for always-optimal wireless coverage

Go to the service page, tap a project, and select Wi-Fi Optimization.

Scheduled optimization

Perpetual PoE for always-on power supply
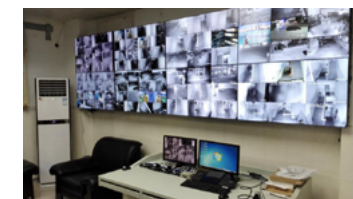
The switch supports perpetual PoE, which provides uninterrupted power to connected cameras even when the switch is rebooting. This ensures always-on cameras.

Well-regulated Internet access

The converged gateway supports over 6000 protocols and applications and enables application access control (e.g., prohibiting game playing or VoD in a specific period of time).

User Benefits

High-quality Wi-Fi 6 network	Wi-Fi 6 APs have smart antennas inside, providing always-on signals for users and ensuring no weak signals even at corners of classrooms and offices.
Always-optimal wireless network	The Wi-Fi network is auto-optimized at scheduled time every day to keep Wi-Fi in its best state.
Secure and reliable network	The gateway integrates IPS, antivirus, and other security functions to ensure campus-wide Internet access security. If more advanced security functions are required, a firewall can be deployed.
Always-on video security	The switch supports perpetual PoE, providing uninterrupted power to connected cameras even when the switch is rebooting. This ensures always-on cameras for campus security around the clock.
Energy saving	The switch supports port hibernation in idle hours and dynamic fan speed adjustments, conserving more than 30% energy.

Success Story

A primary school in Tai'an

Egress security protection: The gateway integrates IPS, antivirus, and other security functions to ensure campus-wide Internet access security.

Perpetual PoE: When the switch is rebooting, the power to connected cameras is uninterrupted for always-on video security.

Port hibernation and intelligent fan speed adjustment on the switch: 30%+ lower energy consumption

Device Type	Converged gateway	Aggregation switch	Access switch	Wireless AC	Wall plate AP	Ceiling-mounted AP
Device Model	AR720	S310-48T4X	S220-48T4S/48P4S	AC650-128AP	AP263	AP362

High-Reliability Community Hospital and Clinic Network

Scenario Analysis

Lobby & nurse station	Consulting room & ward	Office & conference room

- Difficult to match the decoration style
- Disordered cabling, poor aesthetics

- Unstable roaming during ward rounds with PDAs
- Frequent disconnection during mobility

- Weak signals in corners
- Poor video conference experience

Scenario-based Product Portfolio

Internet

Egress gateway

Access switch   Access switch

Wi-Fi 6

Lobby @ ward   Consulting room & office

Internet

Egress gateway

Firewall

Core switch   Wireless AC

Access switch   Access switch   Access switch

Wi-Fi 6

Lobby @ ward   Consulting room & office   Outdoor public area
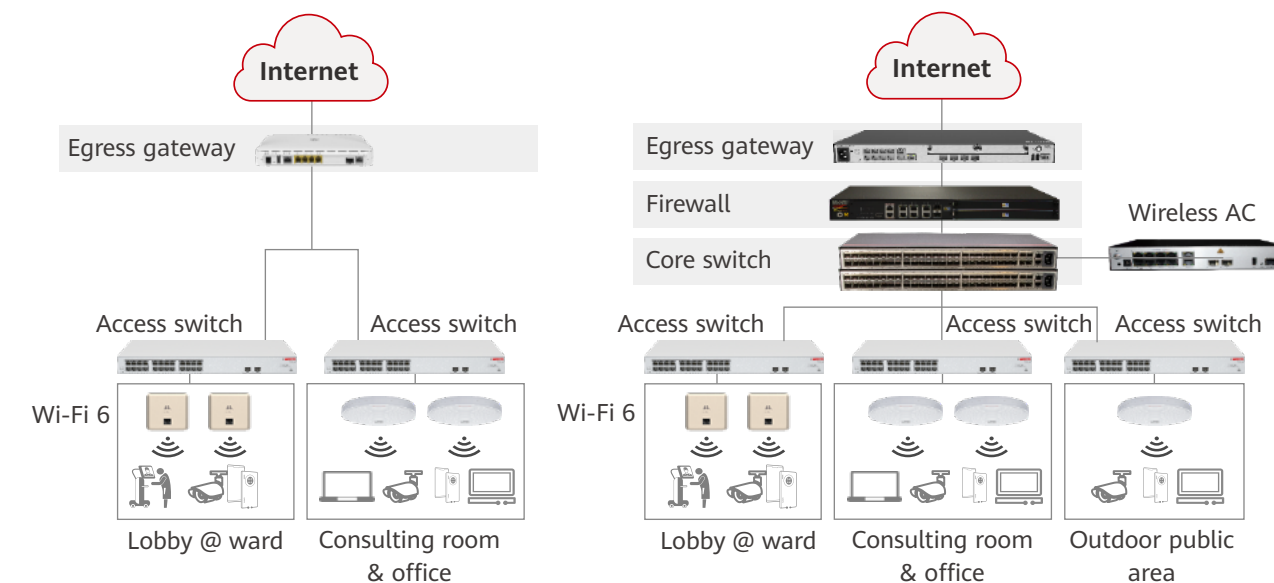
Clinic network

Deployment Location	Device Type	Device Model	Quantity
Internet egress	Converged gateway	S380-S8T2T	1
Access layer	Access switch	S110-24T2SR	1
	PoE access switch	S110-16LP2SR	1
Wireless	Settled AP	AP361	3–5
	Wall plate AP	AP160/AP263	5–10

Community hospital network

Deployment Location	Device Type	Device Model	Quantity
Internet egress	Converged gateway	AR730	1
Security	Firewall	USG6000E-S03	1
Core layer	Switch	S310-24T4X	2
	Wireless AC	AC650-256AP	1
Access layer	Access switch	S220-48T4S	On demand
	PoE access switch	S110-24LP2SR	On demand
Wireless	Settled AP	AP362	On demand
	Wall plate AP	AP160/AP263	On demand
	Outdoor AP	AP761	On Demand

Product Portfolio Highlights

How to ensure secure data transmission when healthcare institutions are fully interconnected?
IPsec VPN, achieving secure communication between sites
1.IPsec VPN: securely connects the hospital HQ, branch hospitals, and community hospitals.
2.0Huawei-unique DSVPN: enables sites to directly communicate with each other.

How to protect personnel privacy, such as diagnosis and treatment information?
Intrusion Prevention System (IPS), protecting your network
1. Prevention of Trojan horses, worms, and viruses in real time to protect network security.
2. The AR integrates the intrusion prevention function, saving the need to deploy related devices, reducing investment costs.
3. The IPS signature database supports real-time local and online update.
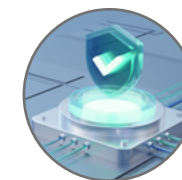
What can I do if a virus spreads through emails or file downloads?
Antivirus, protecting your network
1. Antivirus: identifies and processes virus files to protect network security.
2. The AV function is free of charge. You can also access the security center platform for real-time update.
3. Fast content detection supported for files, which is fast and with low performance consumption.

How to ensure the quality of video invoking for consultation and video security?
WAN optimization, ensuring key services
1. Multi-feed and selective receiving: ensures reliability of key services.
2. Load balancing: helps to properly utilize the bandwidth of multiple links.
3. The multi-feed and selective receiving, and load balancing functions are free of charge.

User Benefits

High quality wireless network
- Superfast Wi-Fi 6 with 3000 Mbps
- Smart antennas: one more wall penetrated with no blind spots

Online behavior management
- Converged online behavior management
- Network access bandwidth guarantee for VIP users

Security protection
- Integrates security functions (such as intrusion prevention detection and antivirus), providing proactive and real-time protection

Success Story

A hospital in Jinan Experience: Guest terminals can access the network anytime, and online registration payment is efficient and stable.

Management: Multi-network convergence ensures stable and worry-free running of hospital services. The network is scalable with reduced TCO.

Security: End-to-end network-wide security protection, refined management and control of users and services, implementing network-wide security and complying with related security standards.

Device Type	Converged gateway	Aggregation switch	Access switch	Wireless AC	Wall plate AP	Ceiling-mounted AP
Device Model	AR730	S310-24T4X	S220-48T4S/48P4S	AC650-128AP	AP263	AP362
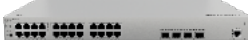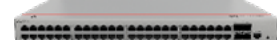
SME Network Portfolio — Switch

S110 series unmanaged switches

S110-8P2ST

- 8 x GE Copper + 1 x GE optical port + 1 x GE Copper
- PoE power: 124 W
- Switching capacity: 20 Gbps
- Forwarding Performance: 14.88 Mpps

S110-8T2ST

- 8 x GE Copper + 1 x GE optical port + 1 x GE Copper
- Switching capacity: 20 Gbps
- Forwarding Performance: 14.88 Mpps

S110-16LP2SR

- 16 x GE Copper + 2 x GE SFP
- PoE power: 124 W
- Switching capacity: 36Gbps
- Forwarding Performance: 26.78Mpps

S110-16T2S

- 16 x GE Copper + 2 x GE optical port
- Switching capacity: 36 Gbps
- Forwarding Performance: 26.78Mpps

S110-24T2SR

- 24 x GE Copper + 2 x GE SFP
- Switching capacity: 52 Gbps
- Forwarding Performance: 38.69 Mpps

S110-24LP2SR

- 24 x GE Copper + 2 x GE SFP
- PoE power: 247 W
- Switching capacity: 52 Gbps
- Forwarding Performance: 38.69 Mpps

S220 series fully-managed switches

S220-8T4S

- 8xGE Copper;4xGE SFP
- Switching Capacity: 24Gbps
- Forwarding performance: 18Mpps

S220-8P4S

- 8xGE Copper;4xGE SFP
- Switching Capacity: 24Gbps
- Forwarding performance: 18Mpps
- PoE Power: 125W

S220-24T4X

- 24 x GE Copper + 4 x 10GE SFP+
- Switching capacity: 128Gbps
- Forwarding Performance: 95Mpps

S220-24P4X

- 24 x GE Copper + 4 x 10GE SFP+
- PoE power: 400 W
- Switching capacity: 128Gbps
- Forwarding Performance: 95Mpps

S220-48T4S

- 48 x GE Copper + 4 x GE SFP
- Switching capacity: 104Gbps
- Forwarding Performance: 77Mpps

S220-48P4S

- 48 x GE Copper + 4 x GE SFP
- PoE power: 380 W
- Switching capacity: 104Gbps
- Forwarding Performance: 77Mpps

S220-48T4X

- 48 x GE Copper + 4 x 10GE SFP+
- Switching capacity: 176Gbps
- Forwarding Performance: 131Mpps

S220-48P4X

- 48 x GE Copper + 4 x 10GE SFP+
- PoE power: 380 W
- Switching capacity: 176Gbps
- Forwarding Performance: 131Mpps

S310 series fully-managed switches

S310-24T4S

- 24 x GE Copper + 4 x GE SFP
- Switching capacity: 56Gbps
- Forwarding Performance: 42Mpps

S310-24P4S

- 24 x GE Copper + 4 x GE SFP
- PoE power: 400 W
- Switching capacity: 56Gbps
- Forwarding Performance: 42Mpps

S310-24T4X

- 24 x GE Copper + 4 x 10GE SFP+
- Switching capacity: 128Gbps
- Forwarding Performance: 95Mpps

S310-24P4X

- 24 x GE Copper + 4 x 10GE SFP+
- PoE power: 400 W
- Switching capacity: 128Gbps
- Forwarding Performance: 95Mpps

S310-48T4S

- 48 x GE Copper + 4 x GE SFP
- Switching capacity: 104Gbps
- Forwarding Performance: 77Mpps

S310-48P4S

- 48 x GE Copper + 4 x GE SFP
- PoE power: 380 W
- Switching capacity: 104Gbps
- Forwarding Performance: 77Mpps

S310-48T4X

- 48 x GE Copper + 4 x 10GE optical ports
- Switching capacity: 176Gbps
- Forwarding Performance: 131Mpps

S310-48P4X

- 48 x GE Copper + 4 x 10GE optical ports
- PoE power: 380 W
- Switching capacity: 176Gbps
- Forwarding Performance: 131Mpps

S310-24PN4X

- 24x2.5GE Copper;4x10GE SFP+
- Switching Capacity: 200Gbps
- Forwarding performance: 144Mpps
- POE Power: 400W

S310-24ST4X

- 16xGE SFP; 8xGE Combo; 4x10GE SFP+
- Switching Capacity: 128Gbps
- Forwarding performance: 95Mpps

S500 series fully-managed switches

S530-24T4XE

- 24xGE SFP；4x10GE SFP+；
- 2x12GE stack ports
- Switching Capacity:176Gbps
- Forwarding performance:132Mpps

S530-24ST4XE

- 24xGE SFP(8 of which are GE
- Combo ports)；4x10GE SFP+；2x12GE stack ports
- Switching Capacity:176Gbps
- Forwarding performance:132Mpps

S530-48S4XE

- 48xGE SFP；4x10GE SFP+；2x12GE stack ports
- Switching Capacity:224Gbps
- Forwarding performance:168Mpps

▍ SME Network Portfolio — WLAN

Wi-Fi 6 series wall plate APs

AP160

- Dimension: 86*86mm
- Data Rate: 1.775Gbps
- Maximum transmit power: 20 dBm
- 2 x GE Copper
- Maximum power consumption: 9.1 W

AP263

- Dimension: 160*86mm
- Data Rate: 2.975Gbps
- Maximum transmit power: 23 dBm
- 2 x GE Copper
- Maximum power consumption: 12 W

Wi-Fi 6 series outdoor AP

AP761

- Data Rate: 1.775 Gbps
- 1 X GE Copper + 1 X GE SFP
- Maximum transmit power: 28 dBm
- Maximum power consumption: 17.7 W
- Operating temperature: –40℃ to +65℃

Wi-Fi 6 series settled APs

AP361

- Dimension: 180*35mm
- Data Rate: 1.775 Gbps
- Maximum transmit power: 20 dBm
- 1 x GE Copper
- Maximum power consumption: 8.8 W

AP362

- Dimension: 180*35mm
- Data Rate: 2.975 Gbps
- Maximum transmit power: 20 dBm
- 1 x GE Copper
- Maximum power consumption: 11.2 W

AP661

- Dimension: 180*35mm
- Data Rate: 6.575 Gbps
- Maximum transmit power: 26 dBm
- 1 x 2.5GE Copper + 1 x GE Copper
- Maximum power consumption: 21.2 W

Wi-Fi 7 series settled APs

AP371

- Dimension: 180x35mm
- Data Rate: 3.57Gbps
- Maximum transmit power: 23dBm
- 1 x 2.5GE Copper

AC600 series WAC

AC650-128AP

- 10 x GE Copper + 2 x 10GE SFP+
- Forwarding capability: 10 Gbps
- Maximum number of manageable APs: 128
- Number of wireless access users: 1024

AC650-256AP

- 10 x GE Copper + 2 x 10GE SFP+
- Forwarding capability: 10 Gbps
- Maximum number of manageable APs: 256
- Number of wireless access users: 2048

AC650-512AP

- 10 x GE Copper, 2 x 10 GE SFP+
- Forwarding Capacity : 12Gbps
- Maximum Number of Managed APs : 512
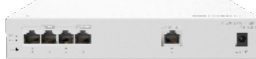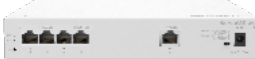- Number of Clients : 4096

SME Network Portfolio — Gateway

AR700/300 series multi-Service gateway

AR720
- 2 x GE Combo WAN + 8 x GE Copper LAN
- Forwarding performance (64-byte): 9 Mpps to 25 Mpps
- Number of Clients: 700
- Maximum power consumption: 20 W

AR730
- 1 x 10GE SFP+ + 2 x GE Combo WAN + 1 x GE Combo port + 8 x GE Copper LAN
- Forwarding performance (64-byte): 9 Mpps to 25 Mpps
- Number of Clients: 1200
- Maximum power consumption: 20 W

AR303
- 1xGE Combo; 4xGE Copper
- Forwarding performance (64 byte): 300Kpps
- Number of Clients: 200
- Maximum power consumption: 12W

S380 series multi-service gateways

S380-L4T1T
- 1 x GE Copper WAN + 4 x GE Copper LAN
- Number of Clients: 200
- Switching Capacity: 8Gbps
- Forwarding Performance: 420Kpps
- Number of managed Aps: 32

S380-L4P1T
- 1 x GE Copper WAN + 4 x GE Copper LAN
- Number of Clients: 200
- Switching Capacity: 8Gbps
- Forwarding Performance: 420Kpps
- Number of managed Aps: 32 PoE power: 50W

S380-S8T2T
- 2 x GE Copper WAN + 8 x GE Copper LAN
- Number of Clients: 300
- Switching Capacity: 16Gbps
- Forwarding Performance: 420Kpps
- Number of managed Aps: 64

S380-S8P2T
- 2 x GE Copper WAN + 8 x GE Copper LAN
- Number of Clients: 300
- Switching Capacity: 16Gbps
- Forwarding Performance: 420Kpps
- Number of managed Aps: 64
- PoE power: 124W

S380-H8T3ST
- 1 x GE SFP + 2 x GE Copper WAN + 8 x GE Copper LAN
- Number of Clients: 500
- Switching Capacity: 16Gbps
- Forwarding Performance: 420Kpps
- Number of managed Aps: 64

SME Network Portfolio — Firewall

USG6000E-S series AI firewall

USG6000E-S03
- 2*10GE(SFP+) +10*GE
- Desktop model
- Number of clients: 400

USG6000E-S13
- 2*10GE(SFP+) +8*GE Combo+2*GE
- 1U Rack-mounted model
- Number of clients: 700

02

Intelligent Collaboration

Smart Office

Bring a smart working style to everyone.

Scenario Analysis

Unified experience is required in various meeting scenarios.

- There are many branches across the country, and there is a large demand for remote communication.
- Multiple scenarios such as internal meetings, external meetings, and workshops are involved.

Smooth switch between different working services is required.

- The switch among working services such as meetings, trainings, data dashboards, and information cannot be easily performed.
- The original devices have low openness and poor compatibility, making it difficult to improve employees' work efficiency.

Simplified O&M is required for various devices.

- There are a large number of meeting devices. The network conditions are complex, and the fault rate is high. Dedicated personnel are required to maintain and manage the meeting devices.

Scenario-based Product Portfolio

Executive office

Remote training for employees

Office bulletin board

Huawei Cloud Meeting

Eshare app

Moodle education software

Office   Office   Meeting room
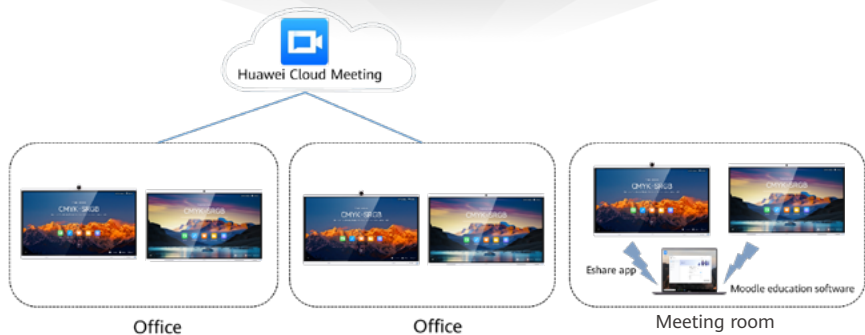
IdeaShare | Cast+ | DLNA | IdeaShare Key

Product Portfolio Highlights

All-in-one endpoint

- No complex networking or dedicated maintenance personnel is required.
- All-in-one, low construction costs.

BYOM

Camera
Microphone
Display
Speaker
IdeaHub
Ongoing meeting
Computer/ Mobile phone[1]

- No apps or OPS.
- DSoftBus + professional-grade peripherals of the IdeaHub support 8 meeting apps, such as Zoom.

Ultimate experience

- Ultra-low writing latency.
- Effortless projection, with no network connection needed.

Smart O&M

IdeaManager

IdeaHub 1   IdeaHub 2   IdeaHub N

- Support device configuration in batches, upgrade, shutdown, and bulletin board.
- One-click detection of software and hardware faults.

User Benefits

Enhanced experience

- Enhanced functions, such as HD meeting, intelligent upgrade, touch control, whiteboard writing, and collaboration and interaction, improve user experience.

Higher efficiency

- Streamline all meeting scenarios, support self-service, and allow users to join hybrid meetings in a unified and easy manner.

Digital office

- From pure meetings (projection, whiteboard content takeaway, and HD meeting) to multiple services (service dashboards and bulletin board), improving enterprise office efficiency.

Success Story

An enterprise has 100 subsidiaries that are widely distributed across the country. In the enterprise, remote meetings are frequently held for communication, which requires HD and stable audio and video. The all-in-one IdeaHub provides functions such as HD cloud video meetings and collaborative offices, achieving efficient and unified management and brand culture communication between the HQ and subsidiaries, and helping the enterprise accelerate digital office transformation.

Smart Classroom

Bring digital to every classroom.

Scenario Analysis

Cooperative teacher-student relationship

- Shift from teacher-dominated teaching to the equal collaboration between teachers and students.

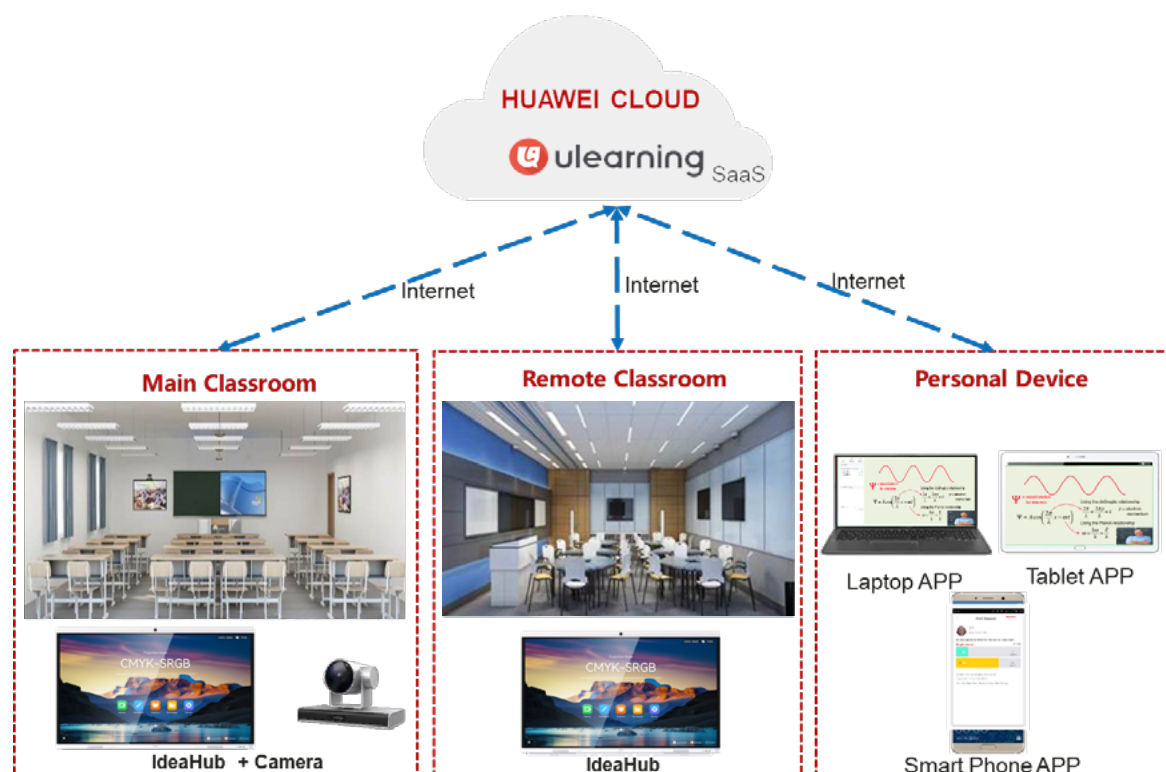### Interactive teaching method

- Shift from passive, teacher-centered learning to interactive, heuristic teaching featuring guidance, discussion, and sharing.

Hybrid learning

- Online + offline hybrid interactive teaching

Scenario-based Product Portfolio

HUAWEI CLOUD

ulearning SaaS

Internet   Internet   Internet

Main Classroom

IdeaHub + Camera

Remote Classroom

IdeaHub

Personal Device

Laptop APP   Tablet APP

Smart Phone APP

Product Portfolio Highlights

highly integrated learning environment

- highly integrated learning environment that integrates teaching interaction, multi-screen interaction, and teaching management

4K soft light screen for eye comfort and protection
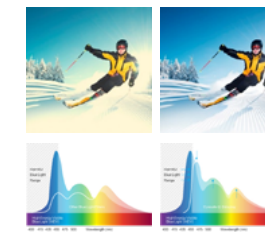
TÜV Rheinland Low Blue Light Certification

TÜV Rheinland Eye Comfort Certification

Peer anti-blue light display   IdeaHub display

- Optical blue light filter certified by TÜV Rheinland
- Accurate color calibration for an immersive learning experience

Easy sharing of teaching materials

- Multiple wired and wireless projection methods, facilitating sharing of audio, video, courseware
- Dual-band, dual-Wi-Fi module, ensuring network connection and projection do not interfere with each other
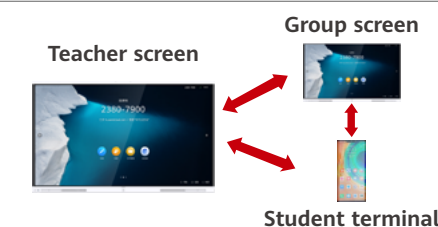
3-tier Inter-screen Interaction

Teacher screen   Group screen

Student terminal

- Fast switchover between Android and Windows
- Compatible with various teaching apps

User Benefits

Healthy and secure teaching environment

- Optical anti-blue light to protect eye health.
- Hardware anti-tampering to protect information security.

Interactive teaching mode

- Sharing of whiteboard content at any time.
- Keep the courseware for review after class.
- Extensive teaching tools for more efficient teaching.

Cross-region interactive class

- Synchronous presentation of cross-region courseware/whiteboard content.
- Discussions are held in different places at the same time, and comments are made on the discussion results.

Success Story

School A uses HUAWEI IdeaHub to build a smart education platform that supports both remote and local education. The professional remote collaboration capability of HUAWEI IdeaHub enables students in remote classrooms to interact with teachers and students in onsite classrooms.

Smart Retail Store

Provide digital customization experience for each customer.

Scenario Analysis

Low publicity efficiency in stores	**Demonstration limited by space**	**High cost of remote communication**
Costly offline materials and low reuse rate	Lack of interactive experience and single demonstration mode	Repeated communication and inconsistent information

Scenario-based Product Portfolio

Scenario

Solution demonstration　Product demonstration　Marketing ad　Digital exhibition hall　Enterprise meeting/ training

Platform

Huawei Cloud　Information distribution system　Design platform

Product Portfolio Highlights

Product demonstration on the cloud

- Directly connect to the cloud experience hall, and conduct scenario-based demonstration without physical goods
- Provide 3D panorama demonstration of products to enable interactive and immersive experience
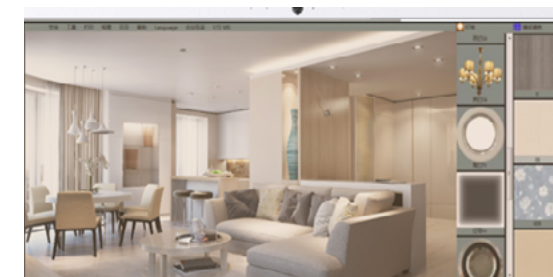
Solution customization and design

- Online design and customers' participation in customization effectively improve the purchase desire
- Various combinations of modules create more possibilities

Store marketing and management

- Unified management and marketing posters synchronized among thousands of stores
- Customized release and HD multimedia display

Store training

- The HQ communicates with stores remotely, enabling standardized operations
- Smooth and easy-to-use projection and whiteboards are used to improve the communication efficiency during the morning and evening meetings

User Benefits

Improvement of store sales per square meter

A small area is also possible to build a digital space that covers everything

One-click brand marketing

One-click ad promotion to branches, effectively reaching customers and standardizing store operations

Employee enablement to improve management efficiency

Remote training is like local presentation. Intelligent store inspection and spot check reduce communication costs

Success Story

Huawei and SNIMAY have carried out comprehensive cooperation in digital stores, which enables extensive customer interaction scenarios, and improves the value of customer orders in stores. Currently, the solution has been deployed in hundreds of stores across the country.

Smart Business Hotel

Build a new marketing high ground.

Scenario Analysis

Subcontractor	Hotel Owner
• Simple and efficient deployment solution • Remote O&M support	• Use modern and interactive electronic products to present materials or play videos during the activities of customer circles. • A unified marketing platform is required.

Simple installation and deployment

Unified store marketing platform

Easy to learn and easy to use

Scenario-based Product Portfolio

HUAWEI IdeaHub + Huawei Cloud Meeting

CMYK-SRGB

Huawei Cloud Meeting

CMYK-SRGB

Meeting room   Business scenarios   Open area

Enablement training

Enterprise meeting

Circle's marketing activity

Product Portfolio Highlights

What can I use to play videos and present demonstration materials to customers in a circle activity? Smart whiteboard with 4K soft-light screen can meet the requirements.

1.4K soft-light screen, HD display, and anti-blue light for eye comfort.

2.Intelligent conversion of handwritten text, smooth writing, and full-screen annotation.

How do I publicize some package discount activities to customers to stimulate their purchase desire?

1.The customizable bulletin board and HiBoard display marketing activities in rotation.

2.Import the theme image of activities with one click to adapt to multiple activity scenarios.

What can I do if customers at a distance cannot arrive at the site? Use the HD remote cloud meeting, which is efficient and convenient.

Native multi-cloud meeting: The product can be used immediately after being powered on. Remote customers can easily join the meeting with one click.

User Benefits

Unified marketing base

Fixed sales scenario: Invite enterprise users and present demonstration materials using the product to form the marketing mode in teahouses.

Value of packages and portfolios

Sales of packages and portfolios: Combine multiple products (service and IdeaHub) to stimulate customers' purchase desire.

Success Story

A business Hotel has more than 30 branches in total, and each hotel has more than one IdeaHub. IdeaHub B2 is used for presentation or playing videos during circle activities. IdeaHub S2 is used to enhance interaction within the area, and customers can access to it remotely.

Smart Healthcare

Provide professional care with smart healthcare.
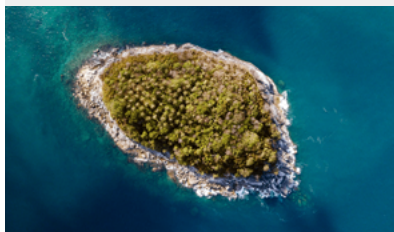
Scenario Analysis

Healthcare efficiency

- Break down and sort out nursing tasks manually.
- Transcribe the information of nursing services manually.
- Write handover reports every day.

Quality & security

- Information transmission by hand may lead to more errors.
- Transcription → Uncertainty + Heavy workload → Human error

Information center

- The exchange of medical information is not in real time.
- Responsible nurses cannot view the latest patient information in real time.

Scenario-based Product Portfolio

Endpoint	Nurse station computer	IdeaHub	1. IdeaHub, the all-in-one touch panel, displays nursing information on a large screen. 2. Relevant information can be input via the nurse station computer.
Platform	Server Data exchange platform	switch	Data exchange and transmission in hospital.
Data	hospital information systems		1. Connect to hospital information systems such as HIS and LIS to obtain doctors' medical advice for patients. 2. Intelligently classify and sort out data.

Product Portfolio Highlights

Smart display of nursing projects

- Smart display and automatic acquisition of nursing projects by category.
- Quick acquisition and real-time update of patient information.

Overview of electronic bed record

- The system automatically generates bed record and manages bed information by category.
- Doctors' advice for each person can be obtained with one touch, and the annotations are easy to view.

Nurse scheduling

- The scheduling result is clear.
- Easy adjustment and one-click inheritance.

Smart handover

- Interconnect with nursing information systems and data sources.
- Automatically generate handover reports based on templates.

User Benefits

Hospital executives

Improve the quality of hospital services.

Improve healthcare security.

Reduce hospital management costs.

Nurse group

Optimize service processes.

Standardize work behaviors.

Improve work efficiency.

Information section

Professional maintenance team

Short implementation period.

Success Story

The Shanxi Provincial People's Hospital uses the smart nursing interaction platform in 87 inpatient areas, greatly improving nurses' work efficiency, optimizing nursing processes, and ensuring nursing quality and security.
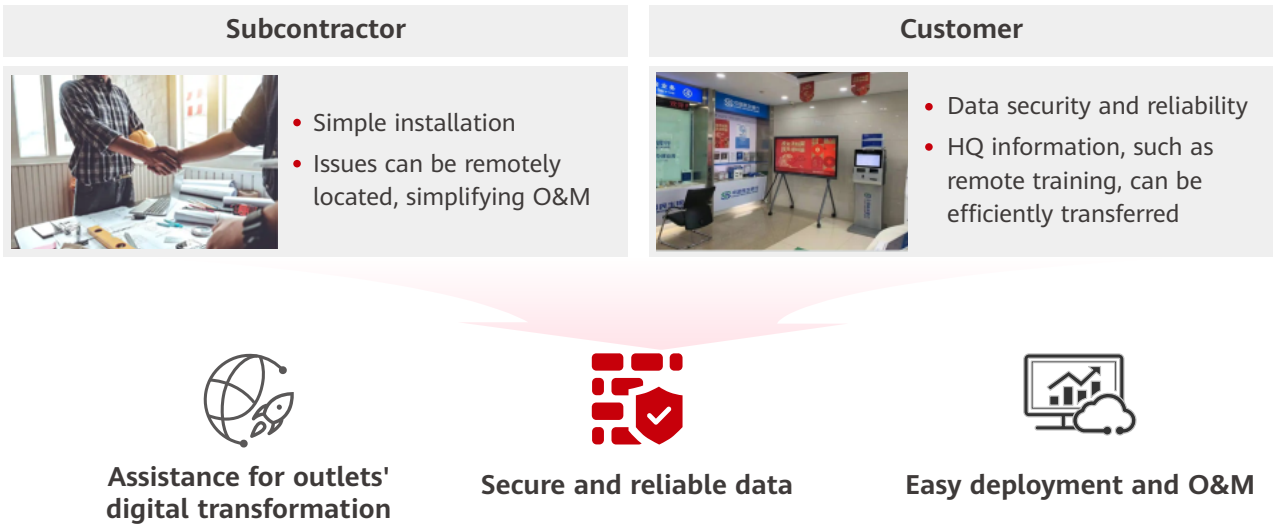
Digital Bank Branch

Bring digital experience to every customer.

Scenario Analysis

Subcontractor	Customer
• Simple installation • Issues can be remotely located, simplifying O&M	• Data security and reliability • HQ information, such as remote training, can be efficiently transferred

Assistance for outlets' digital transformation

Secure and reliable data

Easy deployment and O&M

Scenario-based Product Portfolio

User group	👥 Bank customer	🪪 Account manager	Operations personnel	Governor/ Manager

Application endpoint	🖥 **IdeaHub**	Tablet	💻 PC

Application scenario	Intelligent service	Intelligent marketing	Intelligent operations

Product Portfolio Highlights
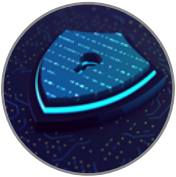
Are there any potential risks for the security of service information and data? There is CC EAL5+ high-level security certification.

The product is equipped with HarmonyOS. Both chips and hardware are self-developed, ensuring security and reliability.

What can I do if the network is unstable and the projection screen is frequently disconnected? Wi-Fi 6 for direct projection ensures stable and HD projection.

Brand-new P2P projection, no network configuration, dual-band Wi-Fi module, and dedicated signal channels for projection ensure the reliability.

If I buy a projector, should I also buy speakers, microphones, and other devices to build a meeting room? One IdeaHub is enough for one meeting room.

1. Cost-effective: One IdeaHub = Professional camera + Microphone + Meeting app + Speaker

2. Time-saving: The product is user-friendly, which provides you with the similar experience of using mobile phones.

User Benefits

Better digital experience in outlets

Replace traditional unidirectional promotion on TV with digital experience based on 12x optical zoom and 4K ultra-HD PTZ cameras.

Efficient collaborative office

Perfectly solve the problem of isolation between administrative meeting on the intranet, marketing and publicity on the extranet.

Smooth communication within the organization

Invest once to acquire multiple application scenarios, such as internal morning meetings, inter-department communication, and the corporate's Party building.

Success Story

A bank has more than 200,000 outlets across the country, and each bank outlet has more than one IdeaHub.

• B2 is used in the hall for exhibition, morning meetings, evening meetings, and remote training.

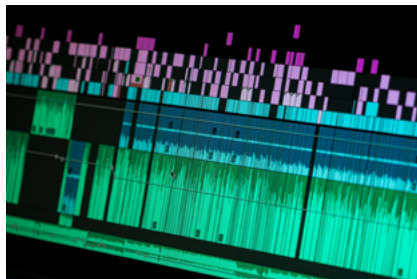• S2 is used in the VIP room for remote connection and online contract signing.

Digital Community

Provide digital services for each community.

Scenario Analysis

Traditional devices are incompatible with mainstream video conferencing software, making operations and maintenance difficult.

Community sites in each district have limited functions and lack unified software and hardware facilities, which is inconvenient for management and maintenance.

There is no diversified teaching environment. In addition to local teaching devices, collaborative whiteboards need to be deployed to meet remote teaching requirements.

Scenario-based Product Portfolio

Administrative meeting   **Community service**   **Training**

Huawei Cloud Meeting

Office   Office   Meeting room

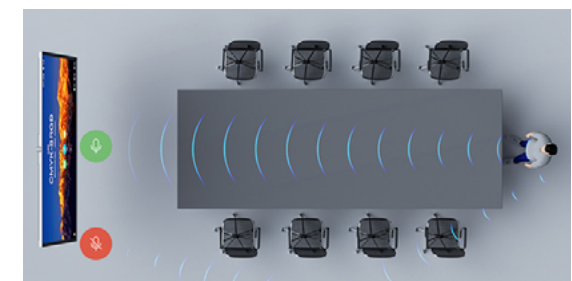Eshare app   Moodle education software
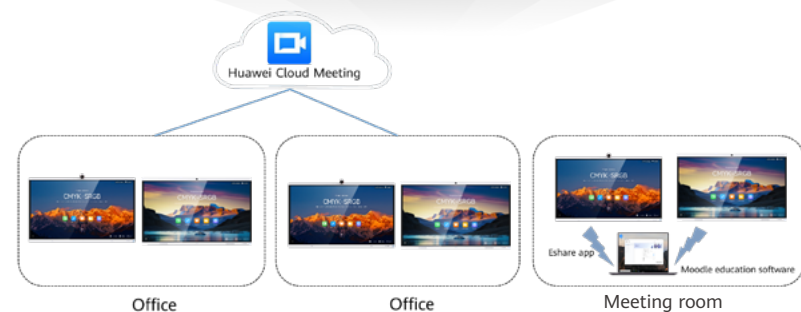
IdeaShare | Cast+ | DLNA | IdeaShare Key

Product Portfolio Highlights

Professional-grade 4K camera

- Stable and reliable
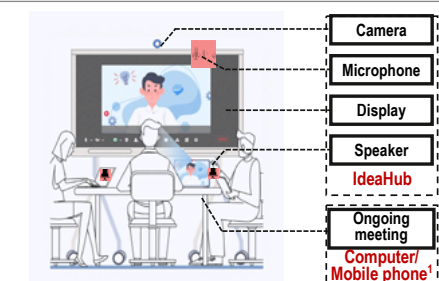- Optical anti-blue light with zero color cast

Clear sound pickup within 12 meters

- 12-meter ultra-long-distance sound pickup is perfect for large meeting
- DNN-based dereverberation allows crystal clear voice in glass rooms

Intelligent Tracking 2.0, providing ideal meeting experience

- Two-person conversation on the same screen
- Golden ratio composition

BYOM

Camera
Microphone
Display
Speaker
IdeaHub
Ongoing meeting
Computer/Mobile phone[1]

- No apps or OPS
- DSoftBus + professional-grade peripherals of the IdeaHub support 8 meeting apps, such as Zoom

User Benefits

IdeaHub's dual-system, powerful experience, HD video meeting quality, and wireless projection and sharing with mobile phones and PCs can greatly improve the quality and efficiency in communities

Smart communities are mainly built for various scenarios, such as skill training for community personnel, communication at remote meetings, community administrative centers, and primary school classrooms

Success Story

An administrative consortium has built a digital community service site for urban and rural areas to help remote areas go digital. Based on the functions of IdeaHub, multiple learning and interaction spaces are designed. For example, the nursing and service space, open communication space, remote office space, digital government zone, and learning and training space are built for diversified interaction, meeting the requirements for local and remote teaching and enriching residents' experience.

HUAWEI IdeaHub portfolio for the distribution market

IdeaHub S2

Next-generation HUAWEI IdeaHub

- HD cloud meeting
- BYOM(bring your own meeting)
- Wi-Fi 6 for direct projection

Scenarios: executive rooms and small- and medium-sized meeting rooms

65"/75"/86"

65"/75"/86"

IdeaHub B3

New Style Smart Office

- BYOM(bring your own meeting)
- AI-powered communication
- Smart office collaboration

Scenarios: reqular meeting rooms, open discussion areas, and store hallss

65"/75"/86"

IdeaHub B2

Next-generation IdeaHub for meetings

- HD cloud meeting
- 25-ms writing latency
- Dual Wi-Fi projection

Scenarios: regular meeting rooms, open discussion areas, and store halls

65"/75"/86"

IdeaHub Board 2

Bring Digital to Every Classroom for Interactive Teaching and Immersive Learning

- 4K soft light screen for better eye care
- Convenient projection, easy to use
- 25 ms low latency for smooth writing

Scenarios: digital classroom, hybrid learning, collaborative classroom

138"

IdeaPresence

Immerse Yourself in Infinity

- Stunning minimalist design
- Cool-running COB display
- Rock-solid security protection

Scenarios: Midsized and large meeting rooms, High-level consultation room, Lecture hall, Command center, Exhibition hall, IOC

2024 IdeaHub eKit Product
Main Specification Overview

Product Name	IdeaHub Board 2	IdeaHub B2
Product positioning	**Entry-level (education)**	**Basic-level**
Highlights	/ Low-latency writing Dual-band Wi-Fi for projection /	Native cloud meeting Low-latency writing Dual-band Wi-Fi for projection /
Size	65"/75"/86"	65"/75"/86"
Color	Jade white	Jade white
OS	Android Windows (OPS required)	Android Windows (OPS required)
Memory/Hard disk	4 GB + 32 GB	4 GB + 32 GB
Camera	/	4K professional
Microphone/Speaker	None/30 W	10 m sound pickup/30 W
Meeting specs	/	/ 1080p cloud meeting
Interface	/ ...	/ ...

Product Name	IdeaHub B3	IdeaHub S2
Product positioning	**Middle-end**	**High-end**
Highlights	/ 1080p HD cloud meeting BYOM Wi-Fi 6 for direct projection Intelligent tracking /	1080p on-premises Meeting 1080p HD cloud meeting BYOM Wi-Fi 6 for direct projection Intelligent tracking Acoustic baffle
Size	65"/75"/86"	65"/75"/86"
Color	Jade white	Jade white
OS	HarmonyOS Windows (OPS required)	HarmonyOS Windows (OPS required)
Memory/Hard disk	8 GB + 64 GB	8 GB + 64 GB
Camera	4K professional	4K professional
Microphone/Speaker	10 m sound pickup/30 W	12 m sound pickup/40 W
Meeting specs	/ 1080p cloud meeting	1080p on-premises meeting /1080p cloud meeting
Interface	/ ...	Touch ...

03

MiniFTTO
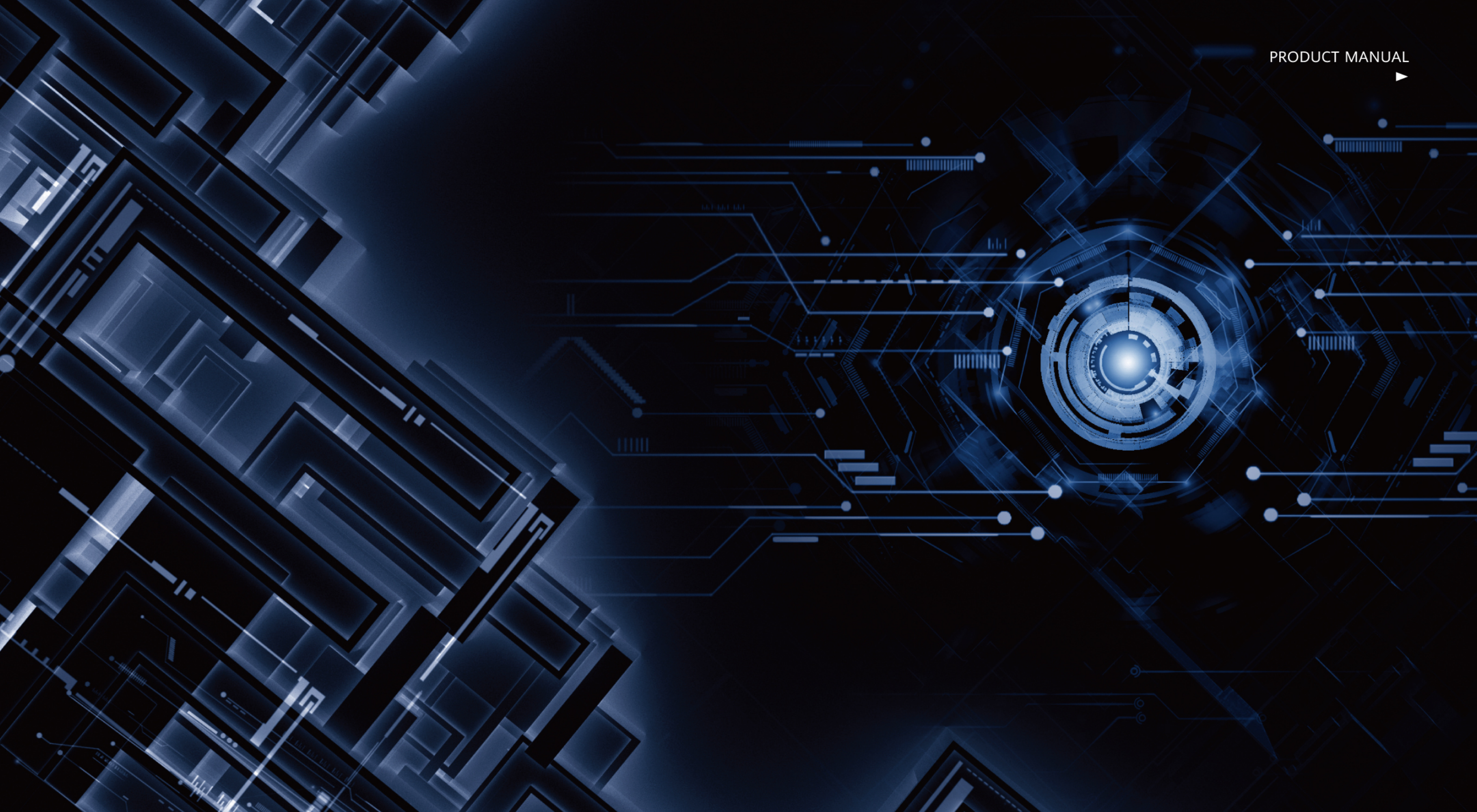
All-Optical Office Network for Small and Medium Business

Scenario Analysis

Superb experience and fast speed

- Smooth network experience, stable, and no freezes

Simple networking with few devices and low costs

- Gateways supporting multiple functions, minimizing the number of devices required
- Support for multiple broadband, saving costs

Professional O&M personnel not required

- Remote managed O&M
- Quick network fault rectification

Scenario-based Product Portfolio

* 10-person office scenario

* 50-person office scenario

* 100-person office scenario

Typical configuration

Device	10-Person Office		50-Person Office		100-Person Office	
	Model	Quantity	Model	Quantity	Model	Quantity
Optical gateway	F1001-AC	1	F1001-AC	1	F1001-AC	1
Ceiling Optical AP	F600C-30-1GH	2	F600C-30-1GH	4	F600C-30-1GH	8
PoE ONU	/	/	F200D-8P	1	F200D-8P	2

Product Portfolio Highlights

Good wireless network experience, no line loss between AP and gateway, no speed bottlenecks

1. All Optical APs use power over fiber (PoF) cables for backhaul, delivering a bandwidth of 2.5 Gbit/s and a high rate.

2. Optical APs have large connection capacity and support 64 concurrent users. The bandwidth for a single user can reach as high as 1.4 Gbit/s.

Advanced optical fiber materials, high bandwidth, transmission distance > 100 m

1. Advanced materials: PoF cables can be terminated onsite. They are easier to deploy and deliver faster speeds than network cables.

2. Long transmission distance: Power and optical signals are transmitted over the same cable. Data transmission and remote power supply can reach 150 m.

Multiple egresses, high integration, one optical gateway for all functions

1. High integration: Optical gateways support multiple functions like Wi-Fi roaming, enterprise gateways, ONTs, and portal authentication.

2. Multi-WAN upstream transmission: The gateway supports a maximum of four broadband channels, policy-based routing, and bandwidth overlay, ensuring network continuity when a single channel fails.

User Benefits

Extraordinary experience

- Innovative optical gateway: a high rate of 2.5 Gbit/s, ultra-large connection capacity
- Optical AP supporting concurrent connections of 64 users at 6 Mbit/s bandwidth High concurrency with excellent performance
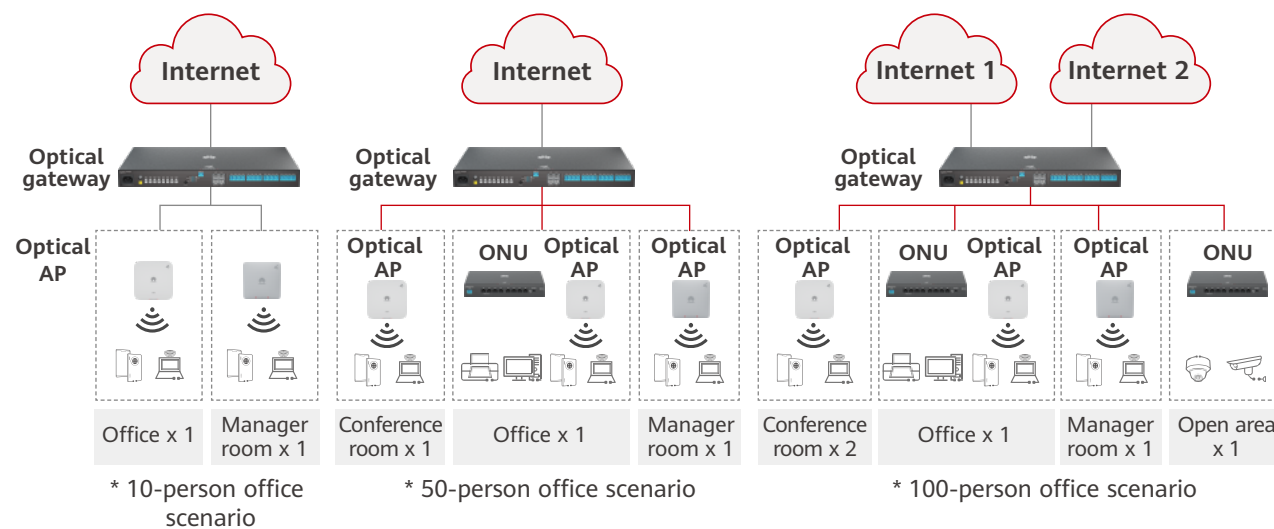
Simple deployment

- Highly integrated optical gateway: an entire cabinet in a box, requiring 80% less space
- Next-gen PoF cables: plug-and-play terminals, zero-touch provisioning

Easy O&M

- HUAWEI eKit App: deployment by scanning code, access control
- Remote Wi-Fi optimization, visualized and manageable network topology
- Remote O&M with quick response

Success Story

Hubei Agile Network Technology Co., Ltd.

Hubei Agile Network wanted to improve its networks. To do so, it deployed the Huawei MiniFTTO Solution, which carries wired network, Wi-Fi, and security services, enabling a team of 100 to work efficiently.

Product	Model	Quantity
Optical gateway	F1001-AC	1
Ceiling Optical AP	F600C-30-1GH	6
Panel Optical AP	F600P-30-1GH1	2
PoE ONU	F200D-8P	2

All-Optical Network for Real Estate

Scenario Analysis

Neat installation, indicator not disturbing residents

Easy to install, available after power-on

Installation in a junction box (86 mm), indicator can be turned off
Remote power supply, plug-and-play devices

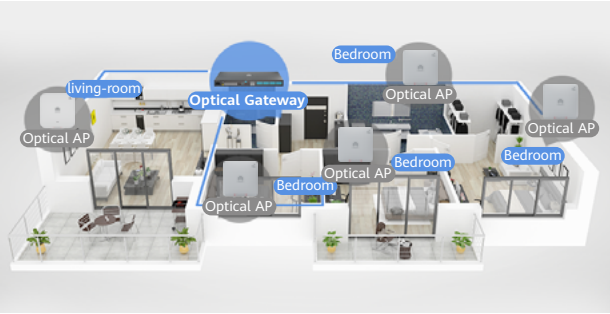**High and stable network rates in online learning/ conferencing scenarios**

Strong signal, large coverage
Stable networking, fast speed

Many types of networked terminals, parental control needed

Refined parental control (by person/time/terminal)
Stable connection at 2.4 GHz
Ultra-gigabit at 5 GHz

Scenario-based Product Portfolio

One-story flat

Mini cabinet under the stairs

PoE terminal for video backhaul

panel Optical AP in bedroom

Ceiling Optical AP in living room

Multi-story house

Typical configuration

Device	One-Story		Multi-Story	
	Model	Quantity	Model	Quantity
Optical gateway	F1001-AC	1	F1001-AC	1
Ceiling Optical AP	F600C-30-1GH	5	F600C-30-1GH	8
PoE ONU	/	/	F200D-8P	2

Product Portfolio Highlights

Optical AP: a high rate of 2.5 Gbit/s, tested rate 1.4 Gbits/s in actual case

1. PoF cables and Optical APs give full play to the advantages of Wi-Fi 6.

2. PoF cables replace common network cables, bolstering the rate to 2.5 Gbit/s and transmission distance to up to 150 m.

Fiber to the room (FTTR), ultra-gigabit optical Wi-Fi roaming

1. FTTR: Wi-Fi signals do not have to pass through walls, preventing rate attenuation.

2. Fast roaming: Video conferences are super smooth, thanks to roaming algorithms that ensure ultra-low latency and seamless roaming.

Application identification and control

1. Allows parents to customize application control time periods to guide their children in using the applications properly.

2. Eight types of applications can be managed in real time, such as those involving games, videos, shopping, social media, payment, and download.

User Benefits

Easy deployment

- Highly integrated optical gateway: a whole cabinet wrapped up in one information box
- Plug-and-play terminals: swap and play, intuitive operations

Smooth ultra-gigabit optical Wi-Fi

- FTTR using dual-band Wi-Fi 6: smooth network with fast speed for a smarter home

Efficient online behavior management

- Rule customization: gaming, short-form video, and more applications disabled on demand at any time
- Guest management: quick generation of guest Wi-Fi management for secure isolation

Success Story

Greentown Yinlu Villa

Greentown's Yinlu is a Chinese-style courtyard villa project located in Hangzhou. When traditional culture meets green technology, the unique charm of Chinese architecture blends perfectly into the natural environment. Huawei's MiniFTTO whole-house fiber network is low-carbon with a luxury touch, providing property owners with a superb Wi-Fi 6 experience everywhere in their smart villas.

Product	Model	Quantity
Optical gateway	F1001-AC	1
Desktop Optical AP	F600D	2
Desktop PoE ONU	F200D-8P	1
Ceiling Optical AP	F600C	2
Panel Optical AP	F600P	6

All-Optical Network for Business Hotel Network

Scenario Analysis

Fast Internet access and good experience

Good network experience, zero frame freezing for Wi-Fi and IPTV No network complaints during peak hours
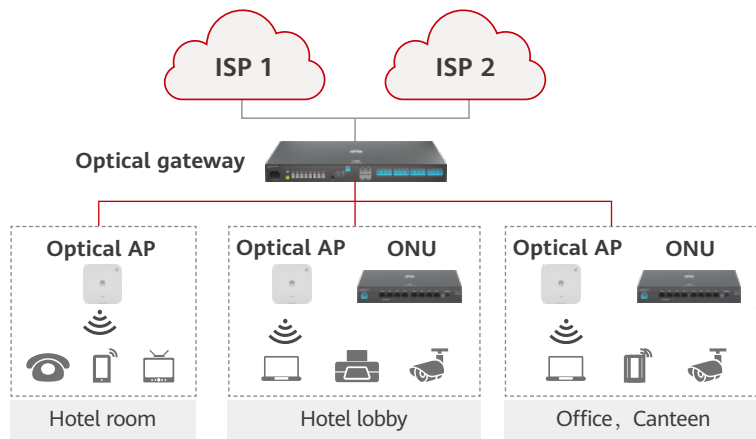
Simple construction

Simple construction and cabling, reducing overall costs

Easy O&M

Easy O&M, fast fault locating and recovery

Scenario-based Product Portfolio

Typical configuration

Device	Model	Quantity
Optical Gatway	F1001-AC	1
Desk Optical AP	F600D-12-4G1V	20
Ceiling Optical AP	F600C-30-1GH	1
POE ONU	F200D-8P	1

Product Portfolio Highlights

All-in-one multi-function Optical gateway

Integrated optical gateway, simplified Layer-2 network architecture, and 2.5 Gbit/s bandwidth to APs

One-fiber multi-service Optical AP

One device supports phone, guest control, Wi-Fi, and wired, simplifying deployment.

One-click smart O&M HUAWEI eKit App

HUAWEI eKit App scans the code for deployment and remote one-click O&M

User Benefits

Deliver a premium service experience

10GE egress and 2.5 Gbit/s high rate.
HD IPTV, wireless projection, and low latency

Simplified O&M

HUAWEI eKit App one-click remote O&M, simple and easy

Success Story

A express hotel in Shenzhen

All-Optical premium experience hotel :

One fiber for one room. One fiber to carry multiple hotel services, reducing costs;

2.5 Gbit/s to the room, high bandwidth, and zero frame freezing during peak hours;

Remote intelligent O&M of the HUAWEI eKit App reduces the fault recovery time by 50%.;

Device	Model	Quantity
Optical Gatway	F1001-AC	1
Desk Optical AP	F600D-12-4G1V	20
Ceiling Optical AP	F600C-30-1GH	2
POE ONU	F200D-8P	1

All-Optical Network for Stores

Scenario Analysis

Superior experience
Gigabit Wi-Fi everywhere

Requirements

Easy to deploy
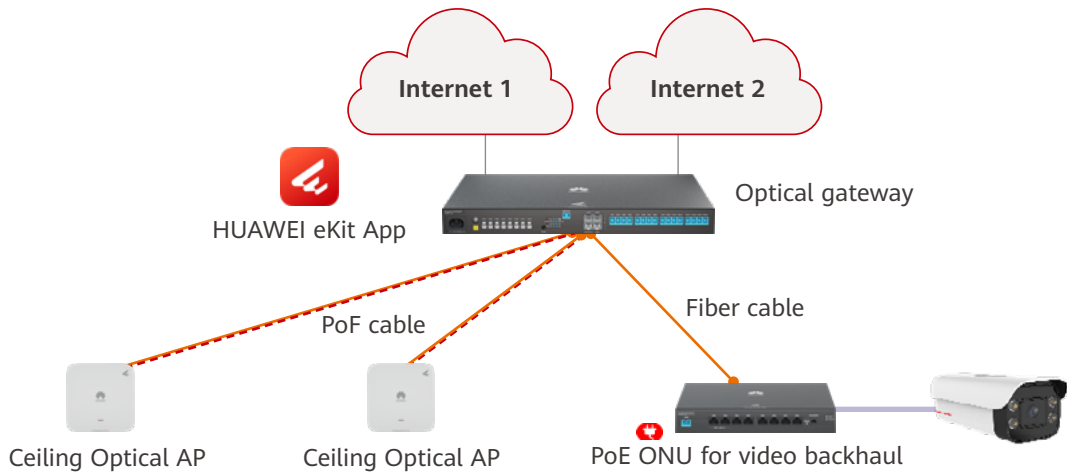Deployed within 1 min by code scanning
Plug-and-play

Easy to maintain
Troubleshooting **within 1 min**
Visible and manageable

Scenario-based Product Portfolio

Internet 1   Internet 2

HUAWEI eKit App   Optical gateway

PoF cable   Fiber cable

Ceiling Optical AP   Ceiling Optical AP   PoE ONU for video backhaul

Typical configuration

Device	≤200m^2		>200m^2	
	Model	Quantity	Model	Quantity
Optical gateway	F1001-AC	1	F1001-AC	1
Ceiling Optical AP	F600C-30-1GH	3	F600C-30-1GH	5
PoE ONU	/	/	F200D-8P	2

Product Portfolio Highlights

Multi-user concurrency to handle large foot traffic

1. Optical APs support high rates and multiple connections. A single AP can provide stable connections for 64 concurrent users.

2. Data is sent back at 2.5 Gbit/s over PoF cables, enabling instant checkout.

One network for various services, supporting multiple terminals of different generations

1. Multiple services are converged, including the wired network, Wi-Fi network, video security, and access control.

2. Supports 2.4 GHz and 5 GHz frequency bands over Wi-Fi 5 and Wi-Fi 6.

User Benefits

Ultra-gigabit optical Wi-Fi, high concurrency

2.5 Gbit/s Wi-Fi 6 Optical AP
Ultra-gigabit for improved customer experience
Smooth checkout, stocktaking, and store inspection

Multi-service bearing, self-service O&M

All services deployed on one optical network
Easy O&M, expertise not required
Remote check using the App for quick resolution

Success Story

MT Stores

MT has built 20+ third-generation cultural experience stores in Beijing, with the Huawei MiniFTTO Solution deployed. Fibers replace network cables, and all services in the store are carried over one network. AI cameras enable functions like heat map statistics, liquor product identification, and remote store inspection, taking MT's culture building to the next level.

Product	Model	Quantity
Optical gateway	F1001-AC	1
Ceiling Optical AP	F600C-30-1GH	2
Panel Optical AP	F600P-30-1GH	1
PoE ONU	F200D-8P	2

MiniFTTO Portfolio

Optical gateway

F1001-AC

NNI: 4 x GE (WAN/LAN multiplexing)/1 x XG-PON

UNI: 4 x GE (WAN/LAN multiplexing) + 8 x GPON (XC/UPC, PoF) + 16 x GPON (SC/UPC)

Device connection capacity: 300

Number of access terminals: 24

ONU

F100D-4G

Box-shaped ONU

NNI: GPON

UNI: 4 x GE

F200D-8G

Box-shaped ONU

NNI: GPON

UNI: 8 x GE

F200D-8P

Box-shaped ONU

NNI: GPON

UNI: 8 x GE, PoE/PoE+

F100P-2G

Panel ONU

NNI: GPON

UNI: 2 x GE

Optical AP

F600C-30-1GH

Ceiling Optical AP

NNI: GPON

UNI: 1 x GE + 2.4 GHz & 5 GHz Wi-Fi 6

F600D-30-4G1V

Desktop Optical AP

NNI: GPON

UNI: 4 x GE + 1 x POTS + 1 x USB + 2.4 GHz & 5 GHz Wi-Fi 6

Optical component

Prefabricated dual-ended PoF cable

Ports: prefabricated XC/UPC small and micro connectors at both ends

Length: 20/30/50/60/80 m

04

Data Storage

ERP Data Storage for Small and Medium-Sized Enterprises

Scenario Analysis

- The Enterprise Resource Planning (ERP) system runs through each link of enterprises' operations, therefore imposing higher requirements on data storage reliability and data security.
- O&M for the IT system needs to be more efficient, with technical means such as snapshot supporting rapid service recovery.
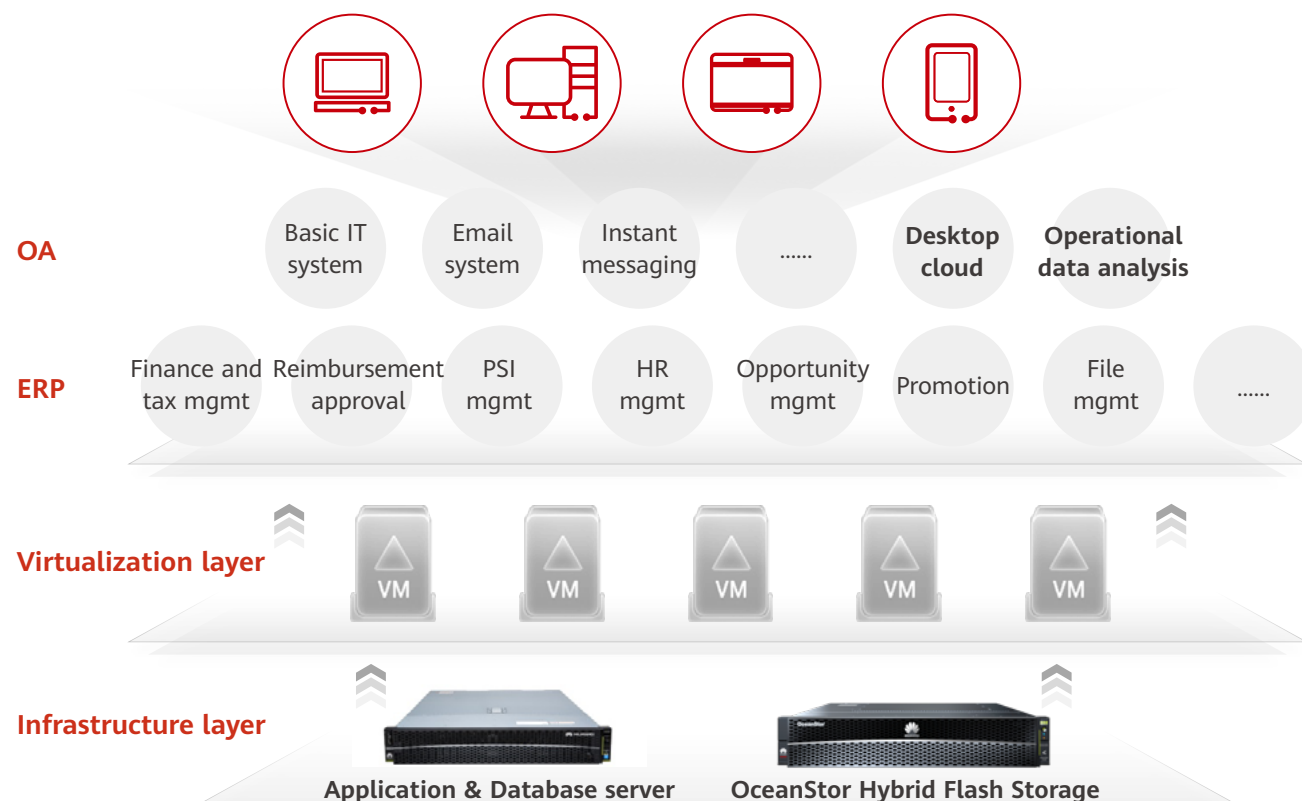
Reliable data without losses　　**Secure data with low risks**　　**Efficient system O&M**

Scenario-based Product Portfolio

| OA | Basic IT system | Email system | Instant messaging | ...... | Desktop cloud | Operational data analysis |

| ERP | Finance and tax mgmt | Reimbursement approval | PSI mgmt | HR mgmt | Opportunity mgmt | Promotion | File mgmt | ...... |

Virtualization layer

VM　VM　VM　VM　VM

Infrastructure layer

Application & Database server　　**OceanStor Hybrid Flash Storage**

Device	Configuration
Recommended ISVs	Open Source ERP, Yonyou U8C, and Kingdee
Application server	1 x dual-socket rack server (6 cores, 32G, 4 x 600G SAS, RAID1, 4 x 10GE ports)
Database server	1 x dual-socket rack server (8 cores, 32G, 4 x 600G SAS, RAID1, 4 x 10GE ports)
Storage system	OceanStor 5120 (2U, Dual Controllers, 8 x 10 GB, 4 x 480G SSD, 8 x 1.2T SAS, SAN Basic Software License)

Product Portfolio Highlights

Convergent services: As information is integrated and shared, information-based means are used to improve working efficiency. Data from multiple systems is stored in professional data storage devices to ensure data security and reliability and reduce device procurement costs.

Secure and reliable system: Redundant components of core storage devices, alongside 99.999% (increased from 99.9%) hardware reliability, improve data security. Value-added functions like volume mirroring and snapshots are deployed to ensure data security and service continuity, while also improving the reliability to 99.9999%.

Easy installation and O&M: Pre-integration with vendors ensures the optimal configuration of the ERP system. One unified O&M contact person reduces communication costs.

User Benefits

Reliable data

Professional enterprise-level storage, data security protected by redundancy and software design of core storage devices

Fast recovery

Value-added functions like volume mirroring and snapshots deployed to ensure data security and service continuity, helping quickly restore data and services based on snapshots

Efficient O&M

Deployment by scanning a QR code, wizard-based configuration, and remote O&M provided by HUAWEI eKit App, and centralized DME O&M

Success Story

A trading company

- **Professional storage ensuring data security**

  One set of storage devices provides professional enterprise-level storage for multiple applications.

- **Rapid service recovery**

  Important service data is backed up using snapshots to quickly restore services.

- **Simplified O&M**

  The solution provides wizard-based, one-click, and remote O&M capabilities to help partners achieve efficient O&M.

IT Infrastructure of small and Medium-Sized Hospitals

Scenario Analysis

- Core systems, such as HIS, should run 24/7 without interruptions to meet the demands of emergency and inpatient departments.
- Hospitals require a high-performance and low-latency solution considering huge pressure on the HIS during peak hours.

Long-term system stability

Smooth services during peak hours

Quick service recovery

Scenario-based Product Portfolio

Doctor front-end workstation

Application cluster   **HIS**   **PACS**

Virtualization cluster   Image cluster

FC or IP networking
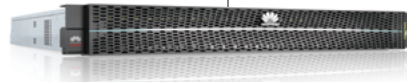
OceanStor Hybrid Flash Storage
SAN & NAS supported

Device	Configuration
Recommended ISVs	HIS/PACS Software
Storage	OceanStor 5220 (2U, Dual Controllers, 64 GB cache, 8 x 1 GB ETH + 8 x 16 GB FC + 8 x 10 GB ETH, 4 x 480 GB SSD + 8 x 10T NLSAS, SAN&NAS Basic Software License)
Server	2 x dual-socket rack servers (8 cores, 32G, 4 x 600G SAS, RAID1, 4 x 10GE ports, 4 x 16 GB FC)
Switch	2 x SNS3664, 2 x CE6850

Product Portfolio Highlights

Simplified architecture: A single storage device supports the convergence of SAN and NAS. The former is used for databases and the latter for images. In addition, the unique NAS intelligent data tiering function greatly accelerates browse and access of hotspot PACS image files while shortening the response time. The convergence of SAN and NAS reduces the TCO by nearly 30%.

Always-on services: A single storage device uses a fully redundant architecture to ensure 24/7 service continuity and prevent data loss. In addition, an active-active storage solution can also be provided as needed.

Flash memory acceleration: SmartQoS and SmartCache help accelerate flash memory, ensuring a high speed of accessing data of core systems such as HIS and PACS. For example, the solution increases the speed of extracting PACS data by 60%.

User Benefits

24/7 services

The high-reliability architecture of OceanStor hybrid flash supports 24/7 service continuity of core systems such as HIS.

Smooth services during peak hours

OceanStor hybrid flash acceleration ensures a high data read/write speed of core systems such as HIS and PACS during peak hours.
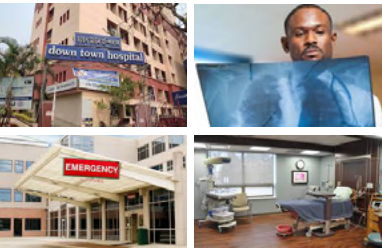
Converged deployment

One device allows converged deployment of SAN and NAS. SAN storage is used for databases, and NAS storage for images.

Success Story

A town hospital

- **Stable data storage**

  Meets the requirements of customer's service planning, eliminates single hardware faults of the system, ensures 24/7 always-on services, and prevents data losses and service interruptions.

- **30% faster response of HIS, images retrieved within 5 seconds**

  The intelligent algorithm of SmartAcceleration makes for prefetch of hotspot image files and accelerates flash memory. A 512 KB image file can be retrieved on a single client within 5 seconds.

- **Multi-functional device**

  One device supports both SAN and NAS, meeting the data storage requirements of both the HIS and PACS.

HUAWEI eKitStor SSD series portfolio for the distribution market

eKitStor Xtreme 300 U.2 SSD
Replace HDDs with SSDs for servers

3.2TB-15.36TB

Superb performance
7200/4500 MB/s
1600K/400K IOPS

Durability and reliability
2,500,000 hours
MTBF(Mean Time Between Failures)

Overall enhancement
DiskBooster:
disk enhancement software
Reliability and performance enhancement

Enterprise SSD related components for scenarios of distribution business

HUAWEI eKit

The HUAWEI eKit digital platform consists of the HUAWEI eKit website and HUAWEI eKit App. It is a digital distribution platform that integrates **marketing, transaction, service, enablement, and partner operations** for numerous distribution partners and enterprise-level users in the enterprise market.

For Distributors
Build e-commerce-like capabilities of transaction and digital operation

For End Users
Connect ICT products and digitalized requirements

ekit.huawei.com

HUAWEI eKit website

HUAWEI eKit App

HUAWEI

Online Mall
Learn about launched and hot-selling products, query prices and specifications, obtain product documents, and quickly select models.

Product Selection
Select product models through the product library and share your selection list with customers in one click.
(Only on the HUAWEI eKit App)

Online Transaction
Gold DPs can place orders online and view the progress in real time.
(Only on the HUAWEI eKit website)

Simplified Deployment
SOHO /Data Storage/MiniFTTO products can be deployed using the App
Routine O&M operations, such as device configuration and network optimization, can be done with one click
(Only on the HUAWEI eKit App)

Partner Operation
Incentives for partners with details shown, Performance Dashboard with clear visualization,
Demand Forecast to maintain supply and demand.
(Only on the HUAWEI eKit website)

HUAWEI

DIGITALIZATION   FOR SUCCESS

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