

Agenda

- Four Pillars of Digitalization
- Antenna Technology
- Passive Optical Networks





Rethink Network Architecture: Build the Foundation of Digital Transformation

Interface

Management, Governance, Remote Operations, Markets, Intelligence

Platforms

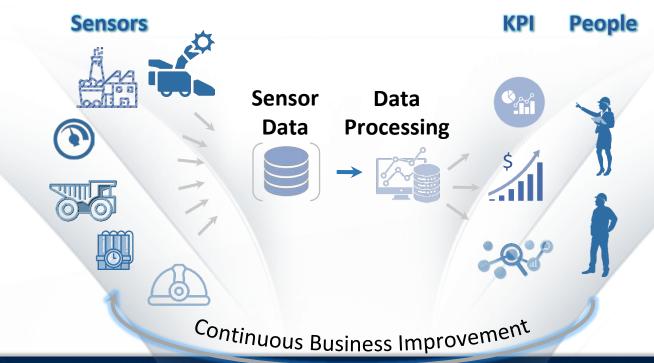
Data Processing and Analytics, Risk Modeling, Data security, SCADA, Optimization

Connectivity

Networks, Ethernet, LTE/5G, Wi-Fi 6, POL Communications Controllers

Sensors

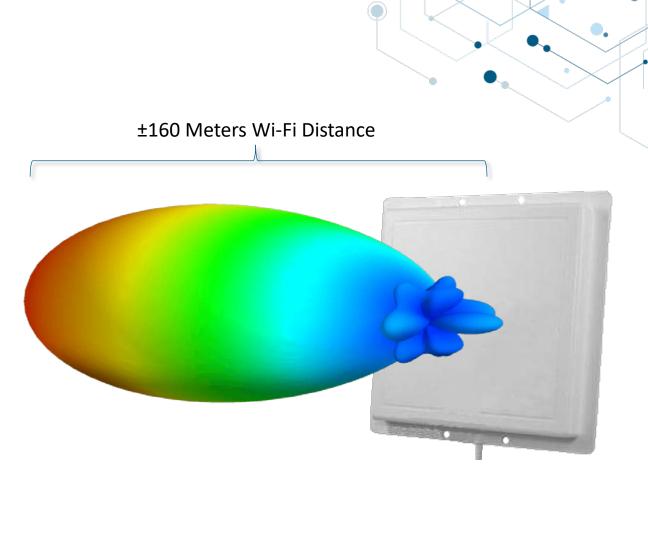
Proximity, Pressure & Heat, RFID, GPS, Telemetry, Slope Monitoring, Accelerometer

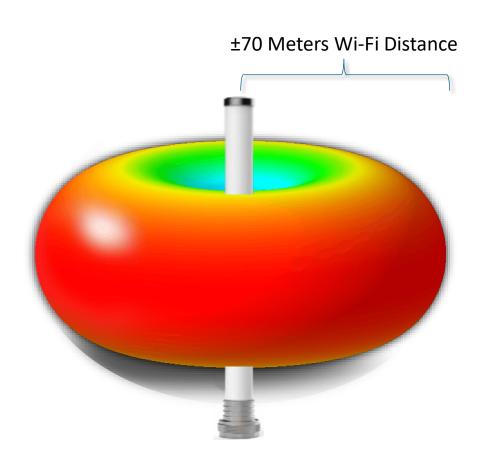






Antenna Radiation Patterns

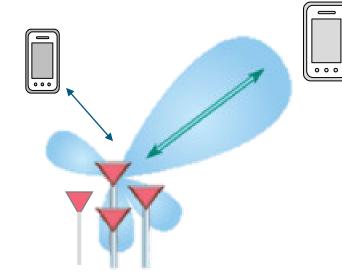


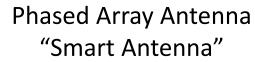


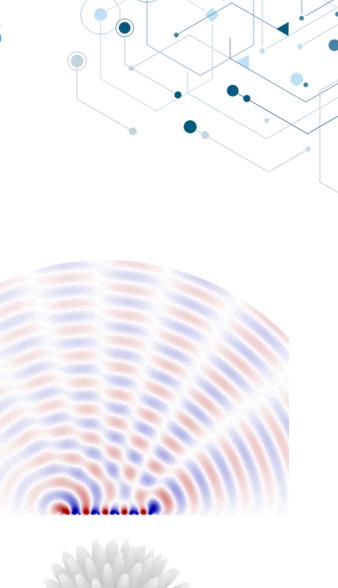
Omni-Directional Antenna

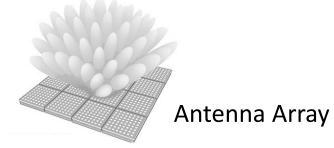
Directional Antenna

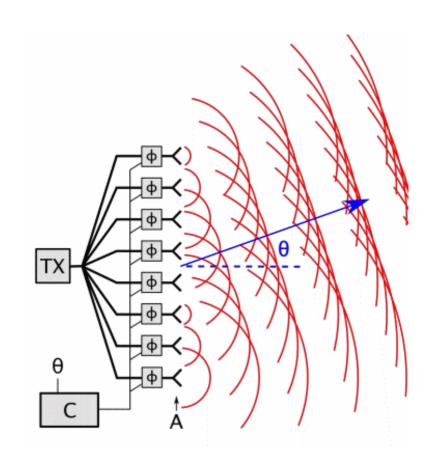
Antenna Radiation Patterns



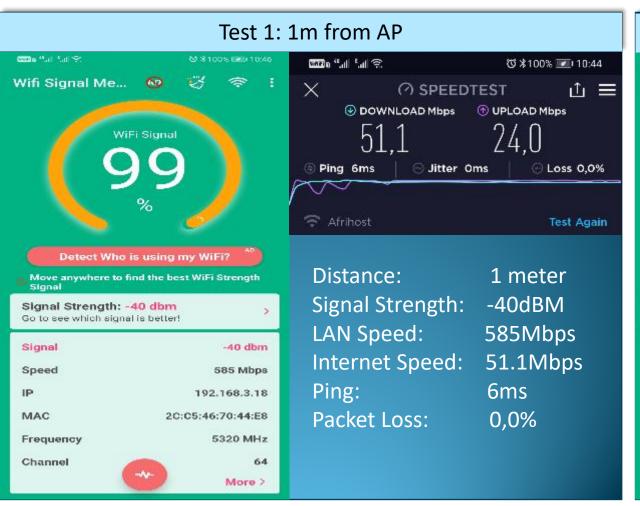


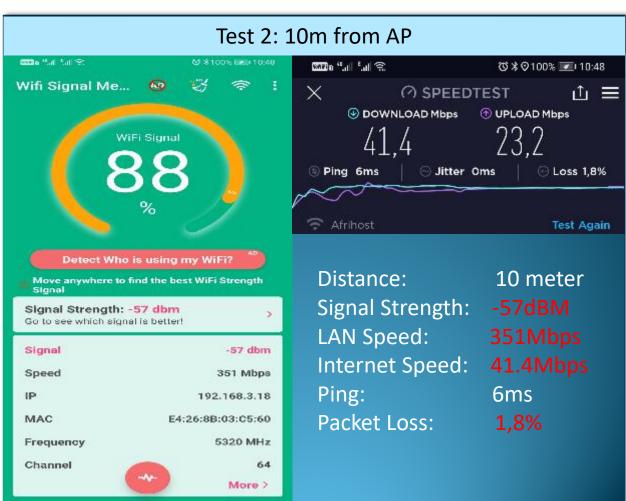




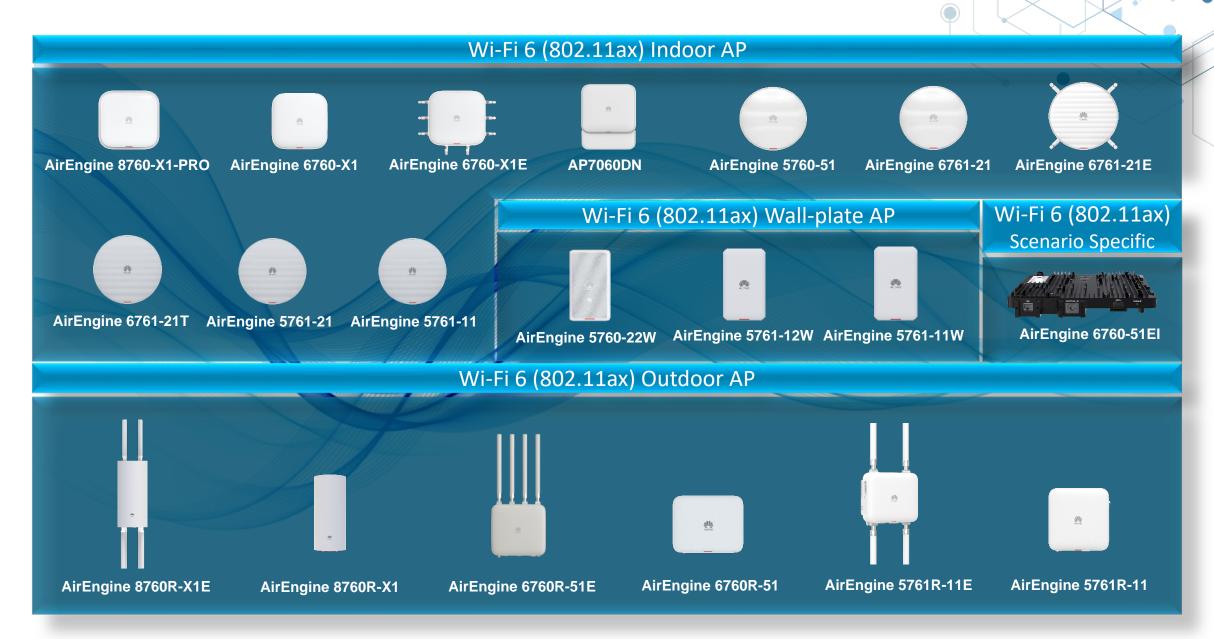


So you have a stronger Wi-Fi signal, so what?





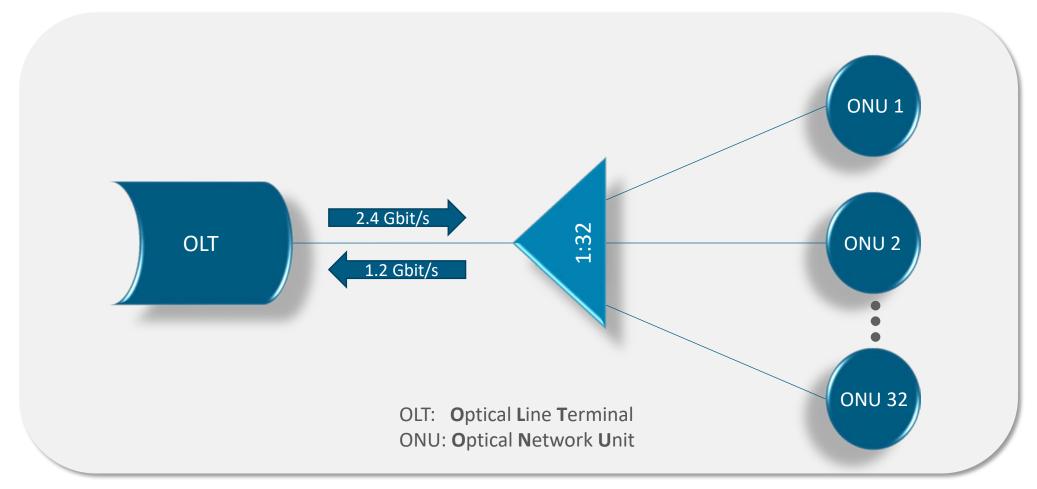
Huawei's Wi-Fi 6 AP Portfolio







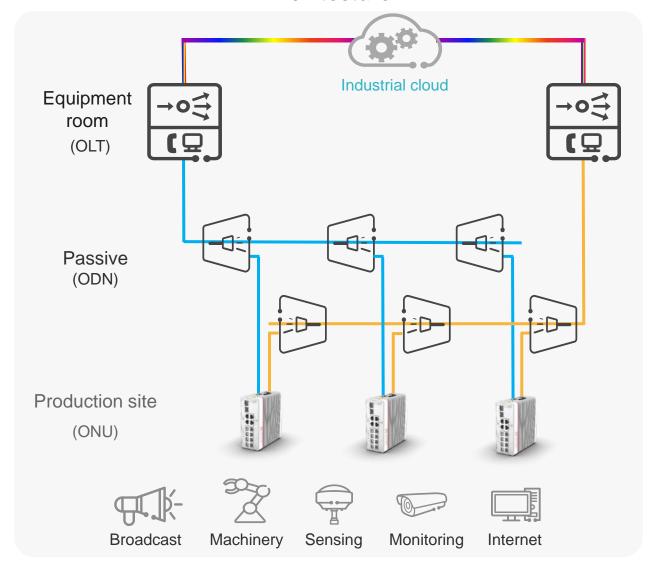
What is Passive Optical LAN?



Passive Optical Network architecture implements a point-to-multipoint topology, in which a single optical fiber serves multiple endpoints by using unpowered (*passive*) fiber optic splitters to divide the fiber bandwidth among multiple access points.

OptiX Solution for All-Optical Industrial Networks

Architecture



Application scenario











Mining

Manufacturing

Oil and gas

Transportation

Electricity

Benefits

Secure Reliable

- Industrial-grade optical terminal: wide temperature range, high surge protection, dual upstream transmission, dual power supplies
- Defense against unauthorized access and attacks

Simplified Deployment

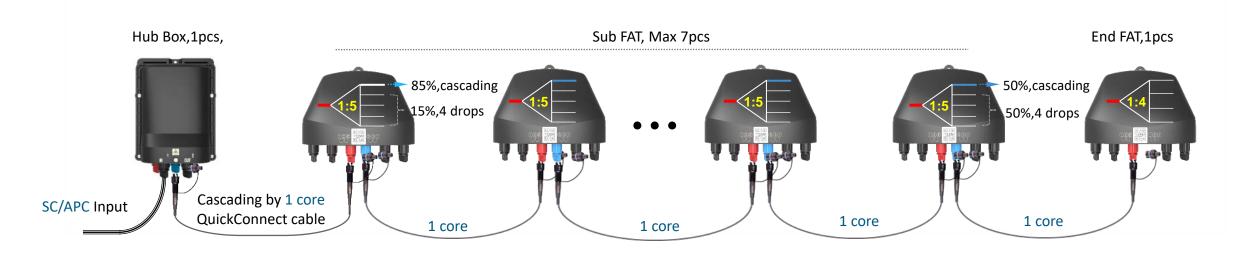
- E2E pre-connection, no underground fiber splicing, and flexible expansion
- Plug-and-play, fast deployment, deployment time

Intelligent O&M

- Built-in containers, supporting edge computing expansion
- Network-wide visualization and management,
- Intelligent optical path diagnosis, locating fiber faults in minutes

Typical Solution for Low Density Area Coverage

1 core cascading, chain consists by 7 Sub FATs and 1 End FAT, supports 32 subscribers



(2:2 even splitter)

Product Highlight

Hub Box

Dimensions: 187 x 131 x 81 mm

Capacity: 2 cores
Protection level: IP68

Installation mode: pole-mounting or

wall-mounting

Sub Box

Size: 219x 156 x 78mm

Port Capacity:

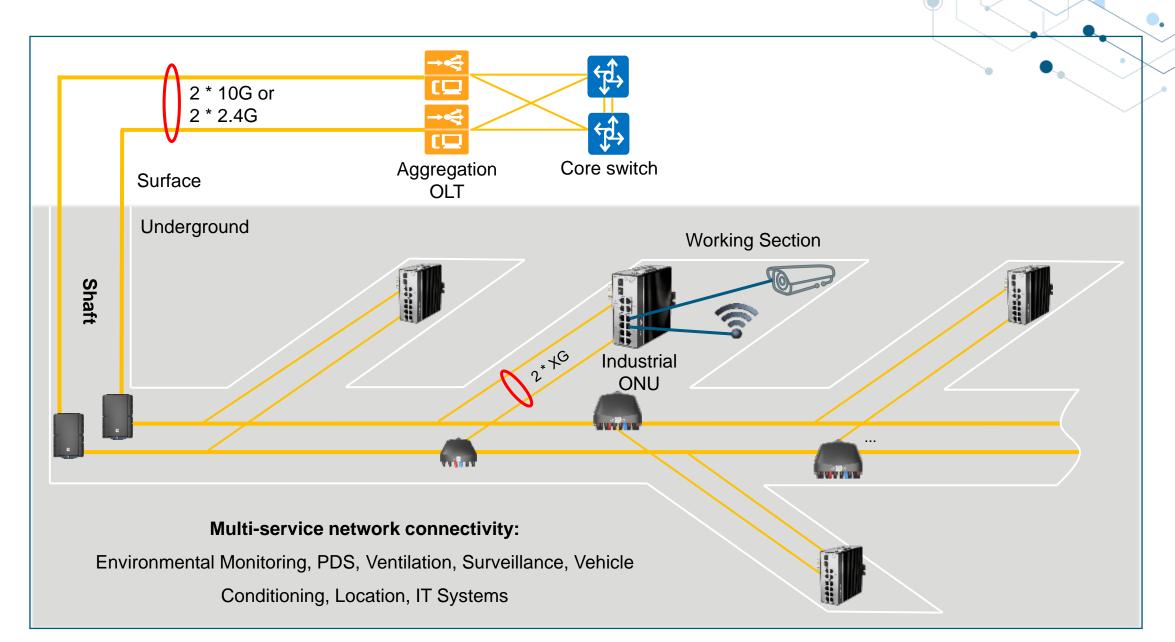
1 input, 4 drops, 1 cascading

Protection level: IP68,IK10

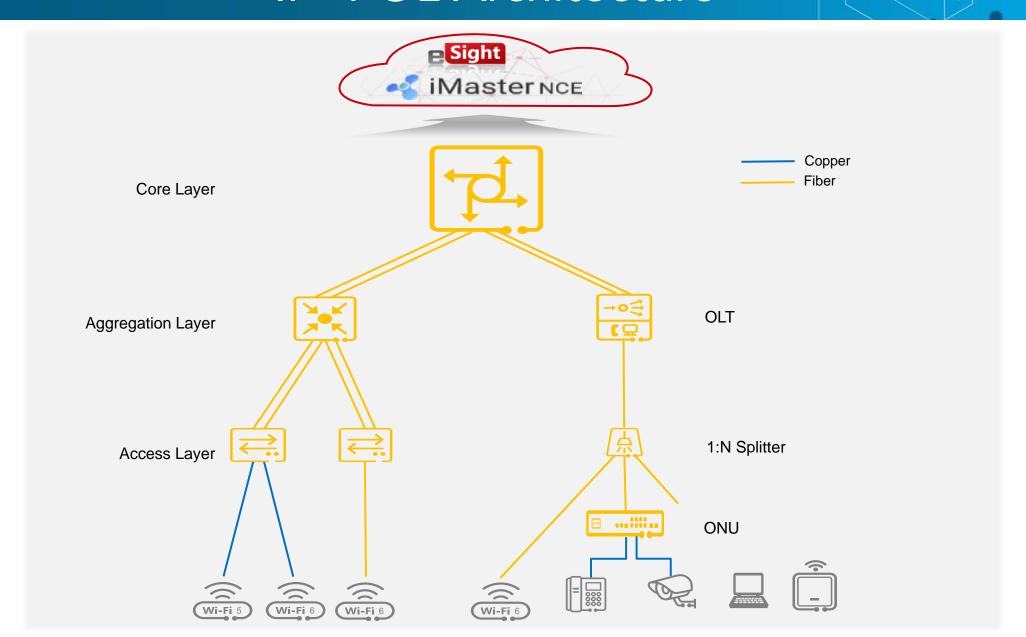
(1:5 uneven splitter)



OptiX Solution for Underground Networks



IP+POL Architecture



Huawei Industrial POL Portfolio













EA5800-X15

EA5800-X7

EA5800-X2

EA5801E-GP16







T823E-D



T823E-X



T823E-G



MA5621E

ONU









