ATN 905 Product Brochure

HUAWEI TECHNOLOGIES CO., LTD.

HUAWEI

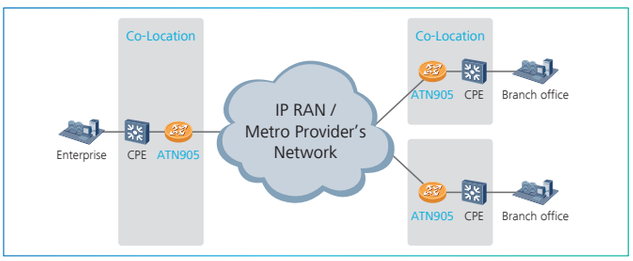
Product Overview

Designed for EDD and Small-cell Mobile backhaul scenarios, ATN 905 Series is the smallest case-shaped equipment in industry. Its size is just the same as an IPad, but its capacity is 6G, and it owns many leading functions such as high-quality SLA, fast fault demarcation, perfect clock synchronization, simple configuration and low power consumption. In addition, both AC and DC are supplied. So it can be flexibly installed in various indoor and outdoor environments.

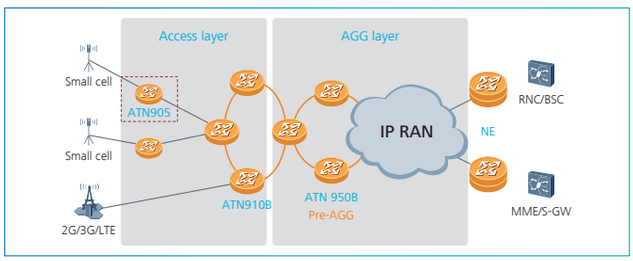
	ATN 905; AC	ATN 905; DC	ATN 905-V; AC	ATN 905-E; AC	ATN 905-C; AC
Indoor Series					
	GE/FE(o/e/combo)	GE/FE(o/e/combo)	1xVDSL2; GE/FE(o/e/combo)	4xE1; GE/FE(o/e)	Supports CPE; GE/FE(o/e/combo)
Outdoor Series	ATN 905A; AC	ATN 905A-P; AC	ATN 905A-V; AC	ATN 905A-D; DC	ATN 905A-C; DC
					
IPAD Size	GE/FE(o/combo)	Supports 3 PoE; GE/FE(o/e/combo)	VDSL2; GE/FE(e)	Supports 4 PoE; GE/FE(e)	Supports 3 PoE; GE/FE(o/e/combo)

ATN905 Products Appearance

Network Position



ATN 905 EDD Scenarios



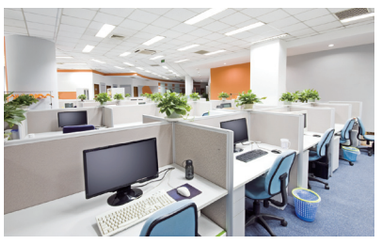
ATN 905 Small cell Bearer Scenarios

Product Feature

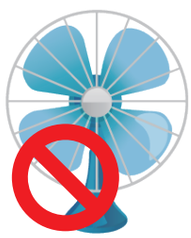
- **Any Where Installed:** As IP65 level protection and -40°C ~ +65°C width temperature thresholds range are supported, ATN 905A outdoor series can be flexibly installed anywhere such as a pole, a wall, an outdoor cabinets and so on. ATN 905 indoor series meets the demands of the indoor environment because it supports nature heat dissipation, zero noise, low power consumption and water-proof.

Width Temperature range

Outdoor cabinet



Indoor

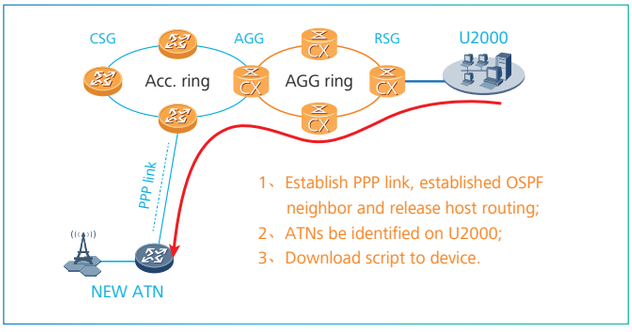


Nature heat dissipation, 0 noise

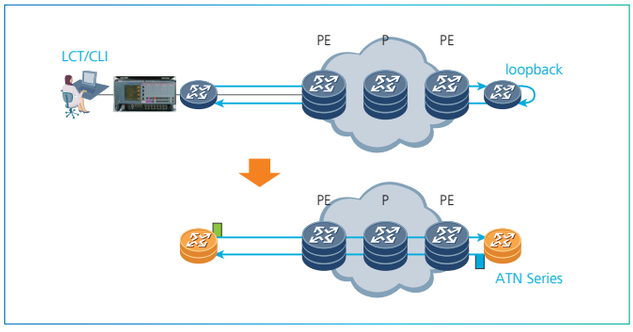
Any Where Installed



- **Plug and Play, Highly Effective Deployment:** No need for manual planning. ATN 905 series supports one time site visit and plug-and-play, replace-and-play. Remote configuration can realize services fast provisioning within 5 minutes; U2000 NMS can automatically record the configuration of fault device and load it to the new ATN device when the new ATN is online. With the design of Built-in test packet generator (compliant with RFC2544), it is tester free for the service deployment.



Plug and Play



Tester Free

- **Comprehensive Clock Synchronization Solution:** ATN 905 Series supports IEEE1588v2 OC, BC and TC all mode, 1588 ACR, E1 line clock and Synchronous Ethernet, perfectly solving the problems of high precision clock synchronization and clock recovery. So, it fulfills the clock synchronization requirement of evolution in long run and reduces investment on GPS and BITS.

- **Powerful Performance Statistics:** ATN 905 series has the hardware-OAM capability. 3.3ms packet interval ensures the fault be detected as fast as possible and services be switched within 50ms. It supports multiple OAM protocols (Y.1731, Y.1564, BFD over everything, TWAMP and RFC2544 etc.). And, via collecting and detecting real-time services performances, the quality status of the whole network is open-and-shut.

- **Self-developed chips, Service Demand and Dynamic:** Based on Huawei self-study network processor NP chips, with its flexible fully programmable architecture, new services can be achieved by microcode programming, so customers do not need to replace the NE hardware, saving equipment investment cost.

- **Dying gasp, Rapid Fault Location:** ATN 905 series supports dying gasp function. When a power outage occurs, a dying gasp alarm will be sent to NMS. It makes the customers locate the error rapidly and reduce the whole time of processing the fault.

- **SDN-Based Software Architecture, Simplified O&M:** Based on SDH software architecture, faced application, ATN 905 series supplies standard north API and south API to realize new service rapid innovation. The separation of controlling plane and forwarding plane makes the disperse devices unified managed and service deployment decoupled from forwarding plane.

Product Specification

Attribute	ATN905 (AC/DC)	ATN905-V	ATN905-E	ATN905-C
Switching Capacity	6Gbps	6Gbps	6Gbps	6Gbps
Interfce Type	2*GE/FE (Combo), 2*GE/FE(o), 2*GE/FE(e)	1*VDSL2 2*GE/FE (Combo), 2*GE/FE(o), 2*GE/FE(e)	4*E1 2*GE/FE(o) 2*GE/FE(e),	2*FE/GE (Combo) 2*FE/GE(o) 2*FE/GE(e)
Power	AC: 90V ~ 260V DC: -38.4V ~ -72.0V	AC: 90V ~ 260V	AC: 90V ~ 260V	AC: 90V ~ 260V
Typical power consumption	15W			
Full equipped weight	1.81kg			
Dimension (W×D×H)	250mm×180mm×43.6mm(1U)			
Operating Temperature	-40°C to +65°C(-20°C to +50°C for ATN 905-V, -5°C to +55°C for ATN 905-E)			
heat dissipation	nature heat dissipation			
humidity	5% RH ~ 95% RH, non-condensing.			

Outdoor Series:

Attribute	ATN905A	ATN905A-P	ATN905A-V	ATN905A-C	ATN905A-D
Forwarding Performance with Service(IMIX)	6Gbps	4Gbps	4.1Gbps	4Gbps	6Gbps
Interface Type	2*GE/FE (Combo), 2*GE/FE(o) 2*GE(o)	1*GE/FE (Combo), 2*GE/FE(e), 1*GE(o)	1*VDSL2 4*GE/FE(e),	1*GE/FE (Combo), 2*GE/FE(e), 1*GE(o)	5*FE/GE(E)
Power	AC: 90V ~ 260V	AC: 90V ~ 260V	AC: 90V ~ 260V	DC: -72V ~ -38.4V	DC: -72V ~ -38.4V
POE	/	1 port supplies 130W POE; 2 ports share 60W POE;	/	1 port supplies 130W POE; 2 ports share 60W POE;	4ports with POE; Max 60W POE per port;
Typical power consumption	15W	210W with POE	15W	210W with POE	180W with POE
Full equipped weight	2.7kg	2.9kg	2.8kg	2.9kg	2.9kg
Dimension (W×D×H)	250mm×180mm ×52mm	250mm×180mm ×52mm	300mm×135mm ×60mm	250mm×180mm ×52mm	250mm×180mm ×52mm
Operating Temperature	-40°C to +65°C	-40°C to +55°C	-40°C to +65°C	-40°C to +55°C	-40°C to +55°C
heat dissipation	Nature heat dissipation				
humidity	5% RH ~ 95% RH, non-condensing				

Software Feature	
L2 Feature	• Support IEEE802.1q, IEEE802.1p, IEEE 802.3ad, IEEE 802.1ab • Support STP/RSTP/MSTP, VLAN Switch, G.8032
L3 Feature	• Support IPv4, IPv6, OSPFv2/V3, RIPv2, and IS-IS/IS-ISv6, BGPv4/BGPV4+, IPv6 ACL/Telnet, 6VP and static route • Support dynamic ARP and static ARP table entries • Support VLAN IF
QoS	• Support WRED, H-QoS with 3 levels, VLL/PWE3 QoS, Access Network QoS Control
Network Reliability	• Support IP FRR, NQA, BFD for IGP, Ipv4 • Support IEEE802ag, IEEE802.3AH, ITU-T Y.1731, Dying gasp
Security	• Support PPPOE • Support static and dynamic MAC address bonding
OAM	• Support ETH OAM (EFM, CFM) • Support BFD • Support RFC 2544, Y.1564 • Support TWAMP(server/reflector)
Clock	• Support 1588V2, Synchronous Ethernet • Support 1588 ACR (only ATN 905A)
O&M	• DHCP Plug & Play • DCN Plug & Play
Lightning Proof	• 6KV
IP Shield	• IP65

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