

ATN 910B Product Brochure

HUAWEI TECHNOLOGIES CO., LTD.



Product Overview



ATN 910B-A; DC

2x10GE(XFP)+8xFE/GE(SFP)+8xFE/GE(RJ-45)+16E1; Supports 1588 ACR



ATN 910B-B; DC

2x10GE(XFP)+16xFE/GE(SFP)+8xFE/GE(RJ-45)



ATN 910B-D; DC

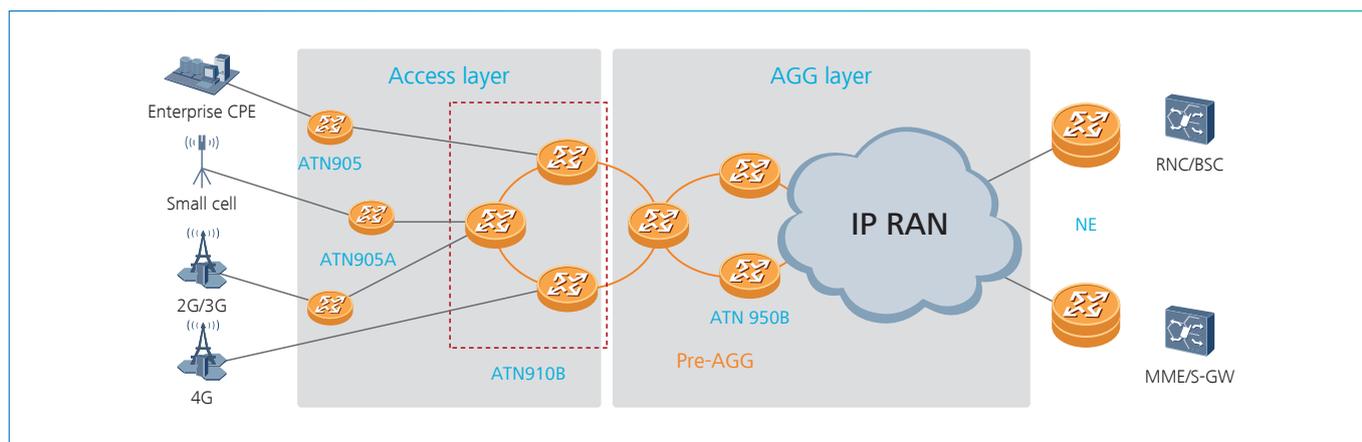
4x10GE(SFP+)+24xFE/GE(SFP)



ATN 910B-E; AC

4x10GE(SFP+)+24xFE/GE(SFP)

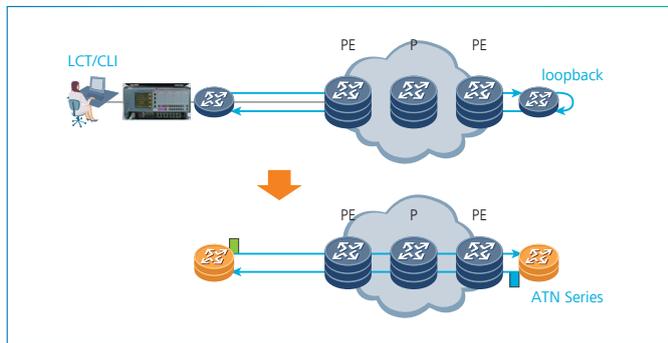
Designed for 2G/3G/LTE ,VLL (Virtual leased line) and integrated services bearing, ATN 910B Series is an case-shaped product with 10GE ports and bearing all Services. It applies on the edge of network, accesses multi-services. With high precise clock synchronization function, ATN 910B series can be installed in any complex scenarios. The new types of ATN 910B series, ATN 910B-D and ATN 910B-E, including 4*10GE and 24GE ports and 64G powerful forwarding capacity, can be flexibly applied in many scenarios such as 10GE ring, pre-AGG node and so on. Double DC and single AC power meet the requirement of carrier machine room.



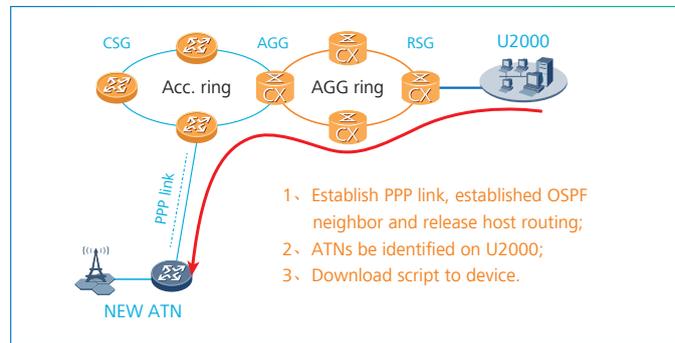
Application Scenarios of ATN910B

Product Feature

- **Small-Size, Super Forwarding Capacity, All Services Borne:** ATN 910B series occupies small space. 1U height makes it be installed at any corner of the machine room. 64G super forwarding capacity perfectly achieves the demands of service switching.
- **Plug and Play, Highly Effective Deployment:** No any need for manual planning, ATN 910B 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.

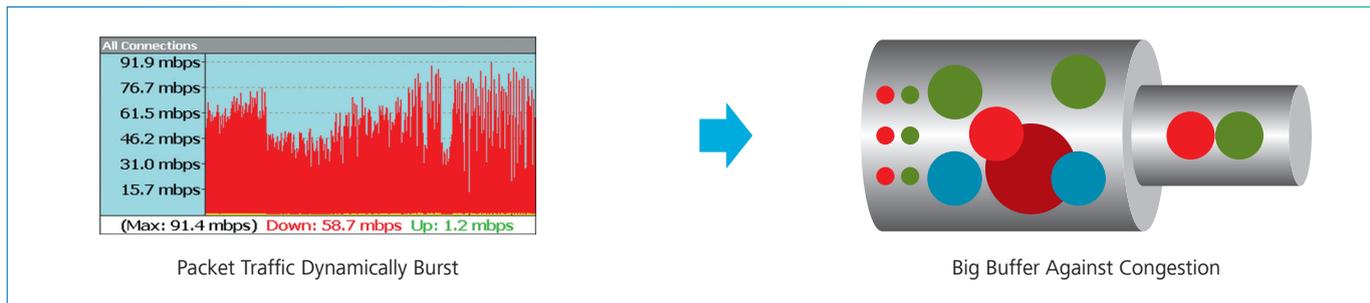


Tester Free



Plug and Play

- **Big Buffer Design, Against Congestion Effectively:** Defending traffic burst, big buffer design ensures the quality of services, promotes the experience of the customers.



- **Virtualization management, Simplify O&M:** ATN 910B series could be virtualized as a board and managed by CX routers, decreasing the NEs number from N+1 to 1 and reducing the management complexity.



- **Hardware NQA&OAM, Reliable Performance Statistics:** ATN 910B 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.
- **NP Architecture, 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 new hardware, saving equipment investment cost.
- **Double DC Power, More Secure, More Reliable:** Double DC power design enhances the reliability of the power input and ensures the equipment running in long time.

- **Lower Consumption, Lower Carbon:** The brand-new power design integrates into ATN 910B series. Its power consumption is just 60W, decreasing OPEX one more step.
- **SDN-Based Software Architecture, Simplified O&M:** Based on SDN software architecture, faced application, ATN 910B series supplies standard north API and south API to realize new service rapid innovation. The separation of controlling plane and forwarding plane makes the dispersed devices unified managed and service deployment decoupled from forwarding plane.

Product Specification

ATN 910B Main Specification	
Switching Capacity	• Switching Capacity: 44G/64G
Dimension (WxDxH)	• 442mmx220mmx44.45mm (1U)
Typical power consumption	• 60W
Power	• AC: 100 ~ 240V; DC: -72V ~ -38.4V
Weight	• 3.6kg
L2 Feature	• IEEE802.1q, IEEE802.1p, IEEE 802.3ad, IEEE 802.1ab • STP/RSTP/MSTP, RRPP, VLAN Switch
L3 Feature	• OSPFv2/V3, RIPv2, IS-IS/IS-ISv6, BGPv4/BGPV4+, IPv6, ACL/Telnet, 6VPE and static routing • Dynamic ARP and static ARP • VLAN IF
MPLS Feature	• LDP, RSVP-TE, L2VPN, L3 VPN (VPLS/H-VPLS/VLL), MPLS/BGP L3VPN • Seamless MPLS • MPLS-TP OAM
Multicast	• IGMP v1/v2/v3, IGMP Snooping, Static Multicast Routing, PIM-SM/SSM, MBGP
QoS	• Based on traffic classification Diff-Serv model • Based on VLAN, 802.1p, VLAN+802.1p traffic classification • WRED • trTCM (double speed three colors CAR) • Based on port traffic Shaping • Supports priority queues per SQ8 • PQ, WFQ • 3 level H-QoS
Clock	• 1588v2, 1588 ACR(ATN 910B-A), Synchronous Ethernet
OAM	• ETH OAM (EFM, CFM, Y.1731), BFD, NQA • RFC 2544, Y.1564 • TWAMP (server/reflector)
O&M	• DHCP Plug & Play • DCN Plug & Play
Operating Temperature	• -40°C to +65°C
Humidity	• long run: 10% RH to 90% RH, non-condensing • short run: 5% RH to 95% RH, non-condensing

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