

# CiTRANS 610A

## 1 Product Description

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The device is introduced from the following aspects.

### 1.1 Product Application

CiTRANS610A is the next-generation miniaturized optical transport device for packet transport based on MPLS-TP.

#### Brief introduction of device

CiTRANS610A is the next-generation miniaturized optical transport device for packet transport based on MPLS-TP. The device has a maximum switching capacity of 6G, provides interfaces such as GE, FE, E1, clock and time synchronization. It is located in the remote access layer of packet transport network, which can meet the demand of increasing IP services for bandwidth and enable flexible scheduling of bandwidth resources.

CiTRANS610A has the following features:

- u Packet transport technology is used to meet operators' increasing demands for bandwidth and flexible bandwidth scheduling of the transport network.
- u PWE3 technology is adopted to realize connection-oriented service carrying.

CiTRANS610A device has two models: CiTRANS610A-8A (AC type) and CiTRANS610A-8D (DC type). The external view of the device is shown in Figure 1-1 and Figure 1-2.



Figure 1-1 External view of AC box device



Figure 1-2 External view of DC box device

## Network Application

CiTRANS 610A is located in the far-end access layer of the packet transport network. It converges services at the edge access layer.

The typical networking of the CiTRANS 610A is shown in Figure 1-3.

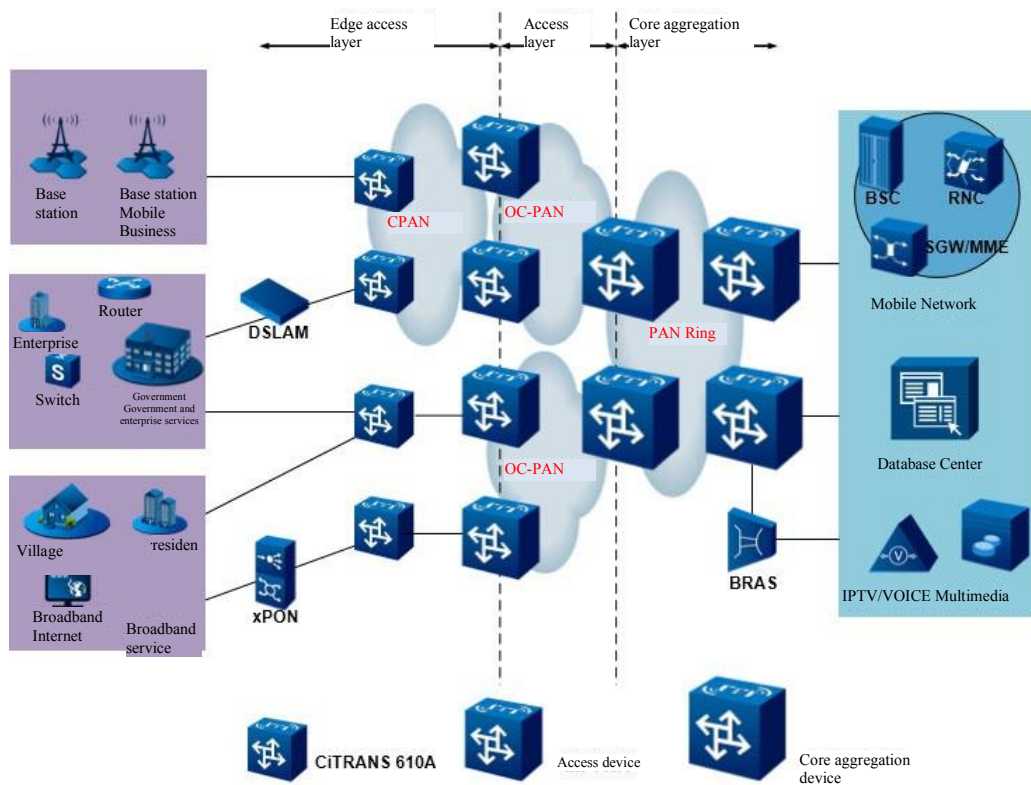


Figure 1-3 Typical networking

## 1.2 List of product features

Features	Description	
Business	Ethernet service	u E-Line (carried on PW)
		u E-LAN (carried on PW)
	CES service (carried on PW)	
Multicast	Layer 2 multicast	
QoS	Flow classification	u Simple flow classification
		u Complex flow classification
	PHB (8 priorities: CS7, CS6, EF, AF4 - AF1 and BE)	
	Committed Access Rate (CAR)	
	Queue scheduling	u WFQ scheduling
	u PQ scheduling	
	Congestion management	u tail discarding
		u port WRED
	Traffic shaping	Token bucket

Features	Description	
Logic interface	LAG	
Tunnel	Static bidirectional MPLSTunnel	
PW	Single hop PW (static)	
Layer 2 protocol	<ul style="list-style-type: none"> <li>u LACP</li> <li>u IGMP Snooping</li> </ul>	
User side	Ethernet LAG protection	
Network side protection	Tunnel-level	LSP 1:1 protection
	PW-level protection	<ul style="list-style-type: none"> <li>u PW 1:1 protection</li> <li>u PW redundancy protection</li> </ul>
Service security	<ul style="list-style-type: none"> <li>u Broadcast traffic suppression</li> <li>u Unknown unicast, unknown multicast suppression</li> <li>u MAC address forwarding table capacity restriction</li> </ul>	
Clock synchronization	<ul style="list-style-type: none"> <li>u TDM clock synchronization</li> <li>u Ethernet clock synchronization</li> <li>u External clock input and output</li> </ul>	
Operation and maintenance	Real-time monitoring and	MPLS-TPOAM
	Service mirroring	
	DCN、GRE Tunnel DCN	
	Other	<ul style="list-style-type: none"> <li>u Alarm real-time reporting</li> <li>u Device and port performance monitoring</li> <li>u SNMP V1, V2, V3 alarm performance query</li> <li>u Link search (Ethernet port)</li> <li>u Power-down warning (sending and receiving power-down)</li> </ul>