# CiTRANS 620A CiTRANS 620A

# 1     Product Description

The device is introduced from the following aspects.

## 1.1     Product Application

CiTRANS 620A is a packet intelligent optical transport platform based on MPLS-TP technology and located at the edge layer.

Brief introduction of device

CiTRANS 620A is a packet intelligent optical transport platform based on MPLS-TP technology and located at the edge layer. The switching capacity of the device supports 6G, and provides interfaces such as E1, GE, FE, clock and time synchronization, which are mainly used in edge access points.

CiTRANS 620A has the following features:

u Support TDM, ETH mixed service access, and provide flexible service access and scheduling capabilities.

u Support PW 1:1 protection, PW redundancy protection, etc., and provide rich network-level protections.

u It is suitable for 19-inch and 21-inch cabinet installation, wall mounting and outdoor cabinet installation, and provides flexible installation methods.

The CiTRANS 620A device includes two models, i.e. CiTRANS 620A-2A (AC model) and CiTRANS 620A-2D (DC model), the external view of 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 620A is a packet intelligent optical transport platform located at the edge layer, which realizes the service aggregation of the edge access layer.

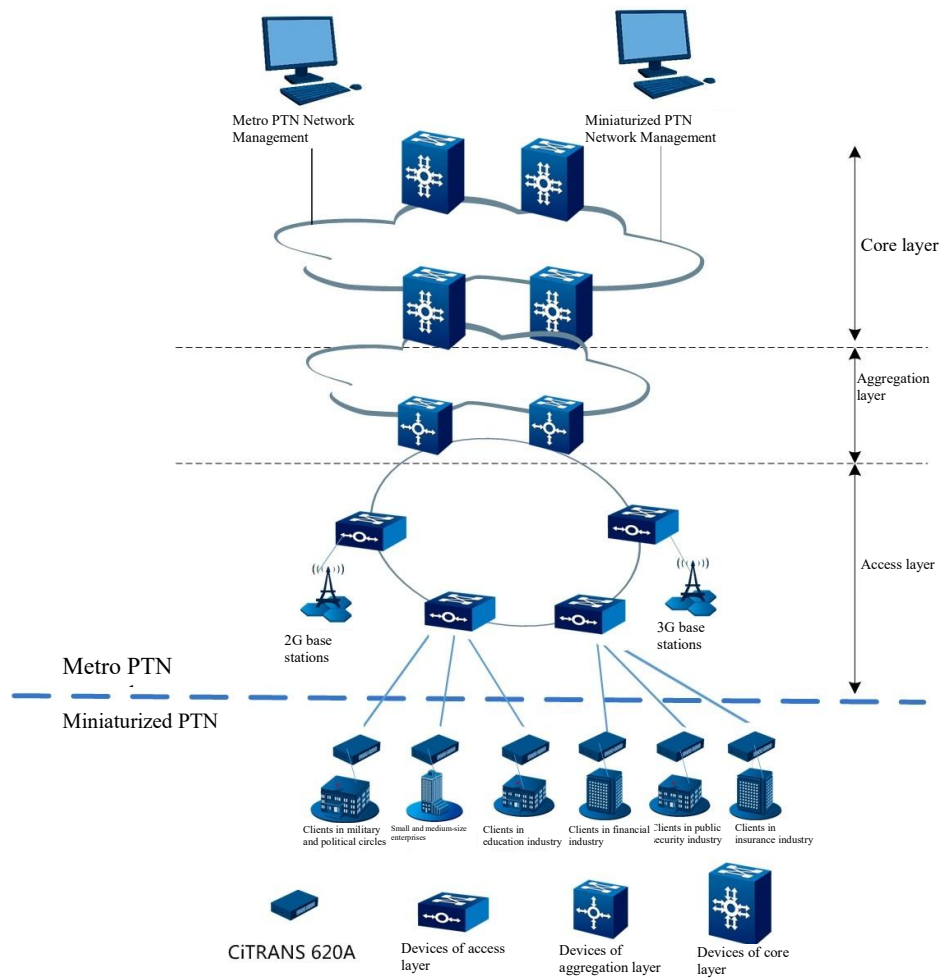Typical networking of the CiTRANS 620A is shown in Figure 1-3.

Figure 1-3 Typical networking

# 1.2 List of product features

| Features | Description | |
| --- | --- | --- |
| Business | Ethernet service | u   E-Line   (carried   on<br>u   PW)   E-LAN   (carried<br>u   on   PW)   E-TREE |
| | CES service (carried on PW) | |
| QoS | Flow classification | u u  Simple flow classification<br>   Complex flow classification |
| | PHB (8 priorities: CS7, CS6, EF, AF4 - AF1 and BE) | |
| | Committed Access Rate (CAR) | |
| | Queue scheduling | u u   WFQ<br>   schedulin |

| Features | Description | |
|---|---|---|
| | Congestion management | u u  Tail discarding<br>     Port WRED |
| | Traffic shaping | Token bucket |
| Logic interface | LAG | |
| Tunnel | Static bidirectional MPLSTunnel | |
| PW | Single hop PW (static) | |
| Layer 2 protocol | LACP | |
| User side | Ethernet LAG protection | |
| Network side protection | Tunnel-level | MPLSTunnelAPS1:1 |
| | PW-level protection | u   PW 1:1 protection<br>     PW redundancy protection |
| Service security | MAC address forwarding table capacity restriction | |
| Clock synchronization | u   TDM clock<br>u   synchronization,<br>u   Ethernet clock | |
| Time synchronization | u   IEEE1588v2<br>u   External time input and output | |
| Operation and maintenance | Real-time monitoring and | MPLS-TPOAM |
| | DCN | |
| | Other | u   Alarm real-time reporting<br>u   Device and port performance monitoring<br>u   SNMP V1, V2, V3 alarm performance query<br>u   Power-down warning (sending and receiving power-down |