



Leading 5G Innovations

## Leading 5G Transport

——ZTE 5G Flexhaul ZXCTN 6000 Series Products

ZTE



## Requirements and challenges for 5G transport networks

In the 5G era, there are higher requirements for bandwidth, latency, and ubiquitous connections. 5G also poses corresponding challenges for the transport network:

- ◇ 3G, 4G, and 5G networks coexist, the network architecture is complex, and bandwidth requirements are huge.
- ◇ Strict latency requirements
- ◇ Ubiquitous connection
- ◇ Differentiated service requirements

As the leader of the 5G era, ZTE has innovatively proposed the 5G Flexhaul transport solution to meet 5G requirements.

## ZXCTN 6000 Series Products

The ZXCTN 6000 series products are the latest 5G Flexhaul transport products of ZTE. They take the packet as the core, supports 100GE, 50GE, 25GE, 10GE, GE and other interfaces to satisfy different networking requirements of 3G/4G/5G. It also provides ultra-large bandwidth, ultra-low latency, massive connection and network slicing functions and supports midhaul/backhaul unified transport. The ZXCTN 6000 series products have strong robustness and scalability in network deployment and technology evolution. ZXCTN 6000 series products contain two part, which are ZXCTN 61V5 and ZXR10 M6000.

ZXCTN 61V5 series products include: ZXCTN 6120H-A, ZXCTN 6120H-B, ZXCTN 6120H-C, ZXCTN 6120H-S, ZXCTN 6120H-SC, ZXCTN 6180H-A, ZXCTN 6180H and ZXCTN 6190H.



ZXCTN 6120H-A



ZXCTN 6120H-B



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ZXCTN 6120H-BL



ZXCTN 6120H-C



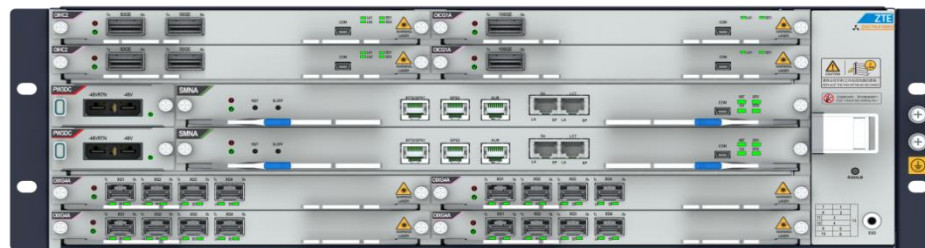
ZXCTN 6120H-S



ZXCTN 6120H-SC

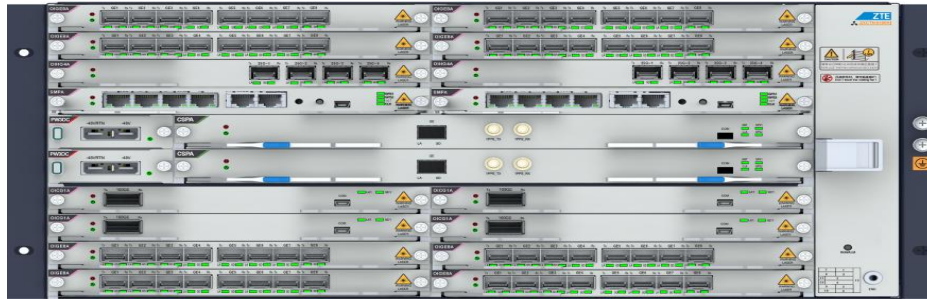


ZXCTN 6180H-A



ZXCTN 6180H

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ZXCEN 6190H

## Highlights and customer values

- **Meet 3G/4G/5G bandwidth requirements and applied to wireless, enterprise customer and other transport scenarios**

The ZXCEN 6000 series products provides multiple bandwidths such as 100GE/50GE/25GE/10GE/GE to support various transport scenarios such as midhaul/backhaul, enterprise customer access and other transport scenarios, greatly facilitating the planning, provisioning, O&M and optimization of the entire network.

ZXCEN 6000 has several access device types that provides a large number of service interface slots and a wealth of interface line cards. It allows a device to flexibly access various services and constantly meets the bandwidth evolution requirements.

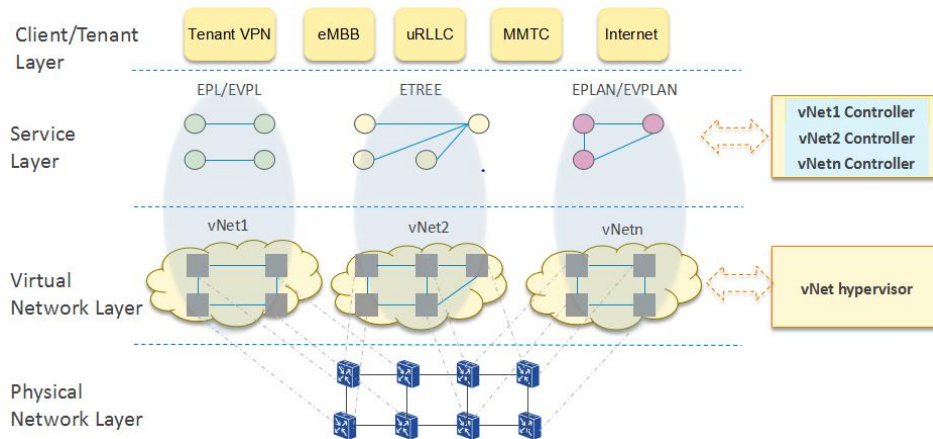
- **Packet as the core and ultra-low latency to build an packet transport network for 5G services**

The ZXCEN 6000 series products solves the problem of uncontrollable IP latency in the industry and effectively meets the low latency requirement of 5G. It supports two modes on the forwarding plane: fast forwarding and ordinary forwarding. The data forwarding mode can be selected according to the service type. The time-sensitive service can take the fast forwarding mode. At the PE node adding and dropping services, the service processing latency is reduced by one order to several us from 30us of the traditional packet device. With the innovative FlexE solution and the L1 electrical-layer direct connection, the intermediate P node allows the node pass-through close to “zero delay” and the forwarding latency of less than 1us, providing a powerful guarantee for new services and the new network architecture.

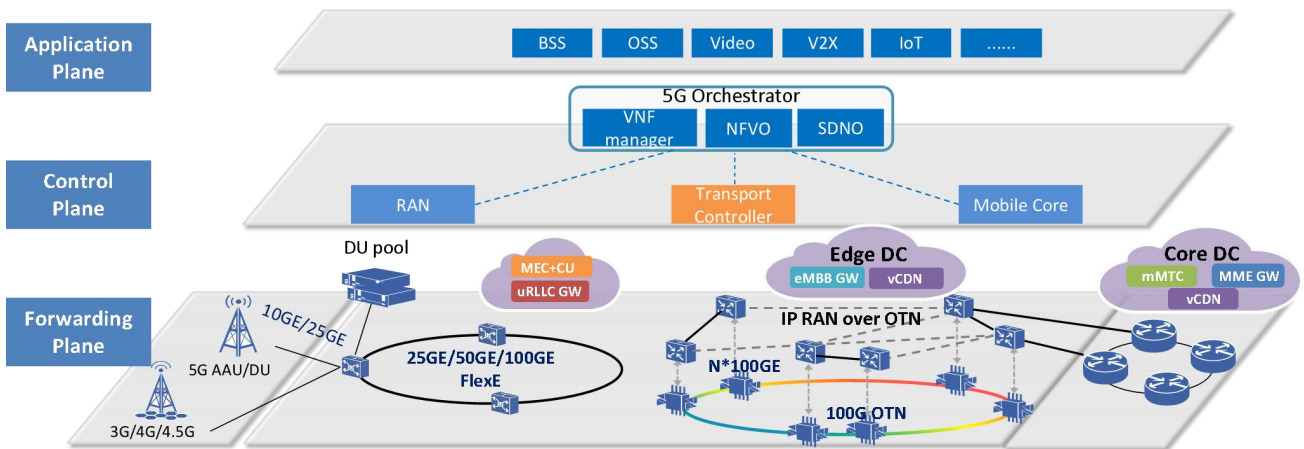
- **Service isolation and network slicing to fulfill differentiated needs of different services**



5G services will be characterized by diversification and differentiation. KPI varies with services in a transport network. The ZXCTN 6000 series products introduce the FlexE technology on the forwarding plane to implement flexible bandwidth allocation and service isolation. Through flexible resource configuration, the product can meet differentiated requirements of 5G scenarios. Different types of services are allocated with different resources on the control plane to make full use of network resources, improving network utilization while meeting differentiated requirements of various services.



## 5G Flexhaul Scenario



The key technologies such as FlexE, low delay forwarding, high precision clock, network slicing are provided to meet the key requirements of 5G network, such as ultra large bandwidth, ultra low delay, flexible networking, and so on, to protect the user's 5G network.



## Specifications

Models	ZXCTN 6120H-A	ZXCTN 6120H-B	ZXCTN 6120H-C	ZXCTN 6120H-S	ZXCTN 6120H-SC	ZXCTN 6180H-A (v5.0)	ZXCTN 6180H-A (v5.1)
<b>Physical Specifications</b>							
Switching Capability	160Gbps	160Gbps	320Gbps	1Tbps	160Gbps	480Gbps	1.2Tbps
Interface Type	10GE/GE	10GE/GE/FE/E1	100GE/50GE/25GE/10GE/GE/FE	100GE/50GE/25GE/10GE/GE/FE	25GE/10GE/GE/FE	100GE/50GE/25GE/10GE/GE/FE/E1	100GE/50GE/25GE/10GE/GE/FE/E1
Service Slots	1U fixed device	1U fixed device	1U fixed device	1U fixed device	1U fixed device	6	6
Dimension (W*H*D mm)	442*43.6*220	442*43.6*220	442*43.6*270	442*43.6*270	442*43.6*270	442*130.5*199	442*130.5*199
Weight	<4kg	<4kg	<5kg	<5kg	<5kg	<15kg	<15kg

Models	ZXCTN 6180H (v5.0)	ZXCTN 6180H (v5.1)	ZXCTN 6190H
<b>Physical Specifications</b>			
Switching Capability	640Gbps	800Gbps	800Gbps
Interface Type	100GE/50GE/25GE/10GE/GE/FE/E1	100GE/50GE/25GE/10GE/GE/FE/E1	100GE/50GE/25GE/10GE/GE/FE/E1
Service Slots	8	8	14
Dimension (W*H*D mm)	442*142*199	442*142*199	442*220*199
Weight	<18kg	<18kg	<28kg



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