

Huawei MA5800-X7 OLT Datasheet	
Item	MA5800-X7
Access features	
GPON/XG(S)-PON Access	10GE/GE P2P Access
Layer 2 features	
VLAN+MAC forwarding	SVLAN+CVLAN forwarding
PPPoE+	DHCP option82
Layer 3 features	
Static route	RIP/RIPng
OSPF/OSPFv3	IS-IS
BGP/BGP4+	ARP
DHCP relay	VRF
Multicast	
IGMP v2/v3	IGMP Proxy/Snooping
MLD v1/v2 (V100R016C10 and later versions)	MLD Proxy/Snooping (V100R016C10 and later versions)
VLAN-based IPTV multicast	IPv4 PIM and PIM-SSM (V100R017C00 and later versions)
QoS	
Traffic classification	Priority processing
trTCM-based traffic policing	WRED
Traffic shaping	HQoS
PQ/WRR/PQ+WRR	ACL
MPLS&PWE3	
MPLS LDP	MPLS RSVP-TE
MPLS OAM	MPLS BGP IP VPN
PW protection switching	Tunnel protection switching
TDM/ETH PWE3	
IPv6	
IPv4/IPv6 dual stack	IPv6 L2 and L3 forwarding
DHCPv6 relay	
System reliability	
GPON type B/type C protection	ERPS (G. 8032)
BFD (V100R016C10 and later versions)	10G GPON type B/type C protection
Monitor Link (V100R018C10 and later versions)	Intra-board and inter-board LAG
Service overload control	MSTP
2 control boards and 2 power boards for redundancy protection	In-service board fault detection and rectification
In-service software upgrade (ISSU) of the control board	

Application security	
802.1x	AAA
Eco-friendly and energy-saving	
In compliance with the Code of Conduct v8 released by the European Commission(V100R021C10 and later versions)	
VXLAN (V100R018C00 and later versions)	
Virtual eXtensible LAN	
SRv6 (V100R019C1x and later versions)	
Segment Routing IPv6	
Slice (V100R021C00 and later versions)	
Service slicing	