

Huawei MA5800-X17 OLT Datasheet	
Item	MA5800-X17
<i>Access features</i>	
GPON/XG(S)-PON Access	10GE/GE P2P Access
<i>Layer 2 features</i>	
VLAN+MAC forwarding	SVLAN+CVLAN forwarding
PPPoE+	DHCP option82
<i>Layer 3 features</i>	
Static route	RIP/RIPng
OSPF/OSPFv3	IS-IS
BGP/BGP4+	ARP
DHCP relay	VRF
<i>Multicast</i>	
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)
<i>QoS</i>	
Traffic classification	Priority processing
trTCM-based traffic policing	WRED
Traffic shaping	HQoS
PQ/WRR/PQ+WRR	ACL
<i>MPLS&amp;PWE3</i>	
MPLS LDP	MPLS RSVP-TE
MPLS OAM	MPLS BGP IP VPN
PW protection switching	Tunnel protection switching
<i>TDM/ETH PWE3</i>	
<i>IPv6</i>	
IPv4/IPv6 dual stack	IPv6 L2 and L3 forwarding
DHCPv6 relay	
<i>System reliability</i>	
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	

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