

EPON ONU

Flow Control	IEEE 802.3x (full duplex flow control) and back pressure type flow control (half duplex)
DBA	Bandwidth granularity is 64kbit/s; SLA including fixed bandwidth/guaranteed bandwidth/maximal bandwidth, delay level and priority level
Multicast	SCB (Single Copy Broadcast) ; IGMP V1/V2; IGMP Snooping; 256 multicast groups; Multicast authority control; The fast-leave of IGMP members; Static multicast; 8K-byte cache to ensure IPTV burst traffic
Management and Maintenance	Centralized OLT management based on OAM; Support alarm and performance statistic, traffic monitoring, loopback test, dying gasp; Ethernet port loopback detection; ONU automatic configuration, batch configuration; Scheduled ONU automatic update and batch update remotely; Remote Ethernet line detection, such as short circuit, open circuit, and the location of failure; SNTP for time synchronization; SMS alarm notification; OLT PON Optical power detection, on-line monitor OLT TX/RX optical power; Rogue ONU detection
Security	AES-128/triple churning encrypt of PON link; Dynamic key-updating
QoS	IEEE802.1p and DSCP; Service classification based on port, MAC, IP, TCP/UDP port, ToS(Type of Service)/Diffserv; Queue scheduling based on SP; Queue depth is 8
WIFI	IEEE 802.11b/g, 54M speed in 2.4GHz; Multiple SSID (MAX 4), WPS, auto channel choice, SSID hiding; Support 64/128 bit WEP,802.1x,WPA, WPA2 for wireless security; Support STA mutual isolation, MAC address black/white list and WMM; Wide range of wireless signal rate ,complied with 54, 48, 36, 24, 18, 12, 9, 6 Mbps of IEEE802.11g, 11, 5.5, 2, 1 Mbps of IEEE802.11b, 300, 150, 130, 65 Mbps of IEEE802.11n; Wireless and modulating type: IEEE 802.1b: DQPSK, DBPSK, DSSS, CCK; IEEE802.11g: BPSK, QPSK, 16QAM, 64QAM, OFDM; Transmission distance: outdoor 100m,indoor 60m (subject to environment)
IP Routing	Support IP routing and source/sink routing; Support DHCP server, client and agent; Support UPnP、NAT、NAPT、DMZ, etc.;; Support IP QoS (CAR)