P2P CPE FTTx Gateway

AE200 Series

- Supports NAT/bridge hybrid mode
- CATV RF Receiver
- 2 POTs VoIP, 4 or 8 data ports
- Optional WiFi
- Flexible auto provision schemes
- Built-in fiber management tray
- Web Interface and SNMP management

ACT AE200 P2P CPE is a series of high performance optical residential gateways designed to deliver high-speed internet connections, VoIP, IPTV, and traditional CATV services. AE200 provides network operators and services providers with the powerful residential gateway equipment needed to provide advanced services in Fibre to The Home/Business (FTTH and FTTB) networks.

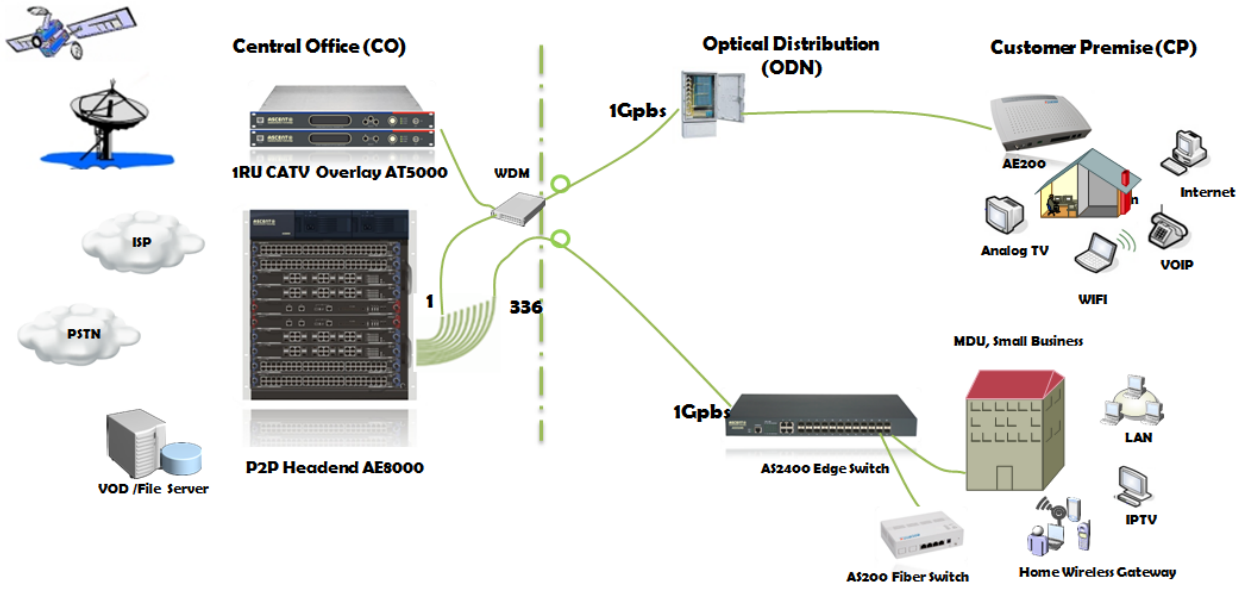
AE200 series includes three base models: AE204, AE224 and AE228 with many selectable options to offer CATV RF, WiFi, Single or Dual WAN fibre port, 100 Mbps or 1000 Mbps uplink connection etc. The AE200 series provides high quality and robust services to allow operators to quickly expand their existing networks and services.

AE200 series offers powerful switching and routing capabilities, and seamlessly cooperates with ACT P2P Headend routing and switching products. Combined with ACT AE8000 Headend Core Switch, AE200 series can provide the ultimate end-to-end FTTX solution in offering advanced video, voice, and data services.

Key Features

- P2P wireless residential gateway for P2P active Ethernet FTTH applications
- Delivers high-speed internet, VoIP, and IPTV and traditional CATV services
- 4 or 8 ports 10/100 or 1000 Mbps, 2 ports VoIP FXS and 1 port 100 Mbps or 1000 Mbps uplink VoIP residential gateway with built-in IEEE 802.11b/g/n draft WiFi module
- NAT/bridge hybrid mode to intelligently prioritize transported video/voice/data traffic
- Optimizes service performance as well as utilization of limited IP resources for service providers
- Flexible auto provision schemes reduce the OPEX of device maintenance for service providers
- SNMP power down trap to rapidly identify network fault due to power outage and reduce truck rolls
- Built- in cable tray for friendly fiber management in FTTH deployment
- FCC Class A, CE

Application Diagram



Specifications

AE200 Wireless P2P FTTx Residential Gateway

Hardware Parameters

Item	Description
Chipset	BCM68380 Series
Optical Type	SC/APC
	SC single-mode/single-fiber, symmetric 1.25 Gbps
Wavelength	Tx 1310 nm, Rx 1490 nm CATV 1550 nm
Optical Power	Tx power -9 dBm to -2 dBm
	Rx sensitivity -22 dBm
	CATV -8 dBm to +2 dBm
Interface Type	4 × 10/100/1000 Mbps
	Auto adaptive Ethernet interfaces, Full/Half Duplex, RJ45 connector
	2 POTS, RJ11 connector
	1 SCTE F connector
Wireless	Compliant with IEEE 802.11b/g/n, 300 Mbps, 2T2R 2 internal antennas
Indicators	12, For POWER, system, LINK, WiFi, Phone, LAN, Pair, CATV

Software Parameters

Item	Description
LAN	Supports port rate limiting
	Supports loop detection
VLAN	Supports VLAN tag mode
	Supports VLAN transparent mode
	Supports VLAN trunk mode
	Supports VLAN translation mode
	Supports VLAN QinQ mode
Multicast	Supports IGMP v1/v2/v3
	Supports IGMP proxy and MLD proxy
	Supports IGMP snooping and MLD snooping
QoS	Supports 4 queues
	Supports SP and WRR
	Supports 802.1P
	Supports DSCP
L3	Supports IPv4, IPv6 and IPv4/IPv6 dual stack
	Supports DHCP/PPPOE/Statics
	Supports static route
	Supports NAT
	Supports bridge, route, route and bridge mixed mode
	Supports DMZ

	Supports DNS
	Supports ALG
	Supports UPnP
	Supports virtual server
DHCP	Supports DHCP server
VOIP	Supports SIP protocol
	Supports voice coding: ITU-T G.711/G.723/G.726/G.729, auto-negotiate with call agent
	Supports Echo cancellation exceeding ITU-T G.165/G.168-2002, up to 128 ms tail length
	Supports high/low speed fax/Modem, bypass fax, and T38 fax
	Supports InBand / RFC2833/SIP INFO, MD5 authentication, call forward, call waiting, hot-line call, and all kinds of value-added voice service. Multi-party conferencing
	Supports Line testing according to GR-909
Wireless	Supports 802.11b/g/n and Mixed mode
	Supports 4 SSID
	Supports No-auth, WEP, WPA-PSK and WPA2-PSK function with AES, TKIP encryption
CATV	RF Video Output Bandwidth (MHz):45~875
	RF Output Level(dBuv):80
	AGC Dynamic Range(dBm):-6~+2
Performance	Data loss: <1*10E-12
	Call loss: <0.01%
Security	Supports Firewall
	Supports Mac filter
	Supports ACL
	Supports URL filter
Management	Supports WEB
	Supports TR069
	Supports TELNET
	Supports CLI

Switching and Routing Features

Standards	IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX/FX
	IEEE 802.1p Priority
	IEEE 802.1q Tag VLAN
	IEEE 802.3x Flow Control
	SIP (RFC3261)
	G.711/G.723/G.726 /G.729 Annex A/B
Layer 2 Switching	PPPoE Client
	IEEE 802.1p priority / 802.1Q tag VLAN
	Q-in-Q VLAN tag
	Application QoS

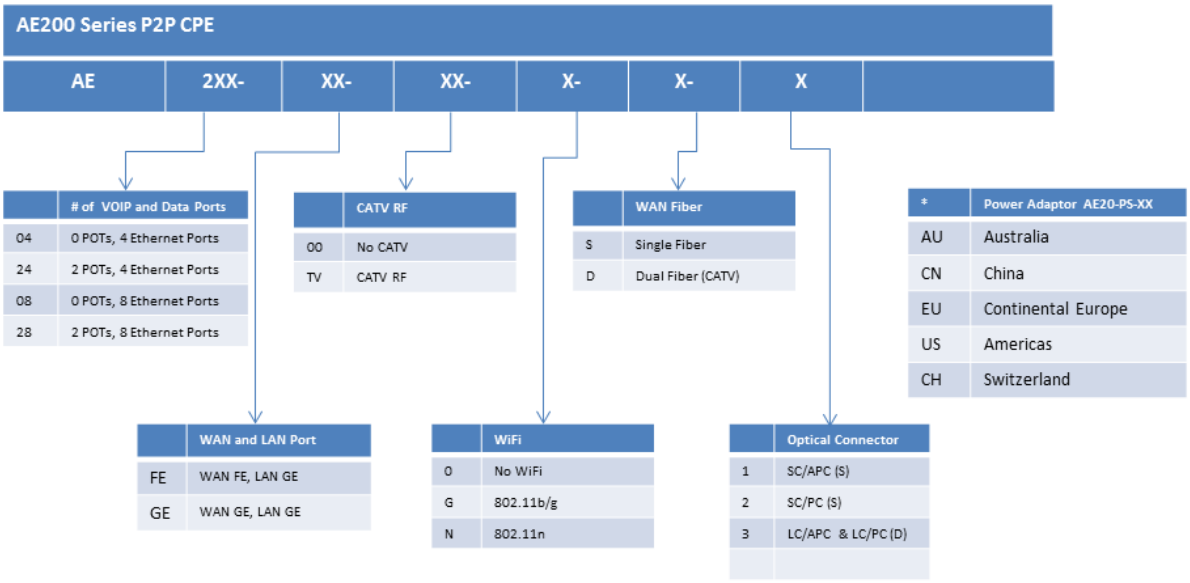
	Rate limit control
Layer 3 Routing	NAT/bridge hybrid mode
	DHCP client and server
	DNS client and DDNS
	IGMP proxy
	IGMP snooping v1/v2
	DMZ host
Security	Attack detection & blocking, Firewall
VoIP Function	VAD and CNG
	Echo cancellation (G.165/G.168)
	DTMF tone generation
	T.38 fax/modem relay, T.38/G.711 fax pass through
	Adaptive jitter buffer, caller ID, call forward, call hold, call Transfer, 3-way conference
Network	Web UI management
Management	SNMP Management
	Supports SNMP v1/v2c
	URL Filtering & filtering schedule
	SNTP, Event Syslog
	Power down trap
	FTP/HTTP firmware upgrade
	Remotely FTP upgrade
	DHCP auto provision
	TR-069*

Additional Product Views

AE2x4 (4 GE Top and Side View)

AE2x8 (8 FE Top and Side View)

Ordering Information



*Power Adapter sold separately

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