

Hardware Specifications

Main Chassis	High Solidity ABS Chassis
CPU	High Performance RISC + DSP (Digital Signal Processor) Integrated Processor
Memory	8MB Flash Memory 64MB SDRAM Main Memory
Network Interface	1-port 10/100Mbps Ethernet (LAN 0) for WAN Interface 1-port 10/100Mbps Ethernet (LAN 1) for LAN Interface
LCD Window	5inch Color LCD with Touch Screen
Voice Interface (Option)	1-port FXO Analog Voice Interface
Audio Interface	1-CH 3.5mm Audio Input 1-CH 3-5mm Audio Output
USB Interface	USB 1.1 Host Mode Interface
Internal Speaker & MIC	High Quality Sound for Speaker Phone
Speed Dial Features	Touch Screen based 25Key(5x5key) Button with User Presence Information
Operation Environment	Temperature 0℃ ~ +45℃(operating), -40℃ ~ +85℃ (storage), Humidity 5% ~ 95%
Power Supply	AC110~220VAC 50/60Hz Free Voltage, 5V 3Amp.
Dimension	37mm x 250mm x 219mm (H x W x D)
Weight	0.95Kg

Audio Service and Signaling Protocol Features

Voice and Audio Codec	G.711, G.723.1, G.726, G.729, etc
VoIP Signaling Protocol	SIP/H.323 VoIP Signaling Protocol (Dual Stack) ITU-T H.323 Gateway, Gatekeeper Support SIP Proxy Server Interoperability
Echo Cancellation	G.165 and G.168 Compliant
Voice Processing	VAD, CNG, Dynamic Jitter Buffer Operation
FAX Support	T.38 G3(Group 3) FAX Relay
DTMF	Detection and Generation, RFC 2833 Compliant
Telephone Features	On-screen Dial Pad, Caller ID & Hold
Voice QoS	Enhanced QoS Management for Voice Traffic

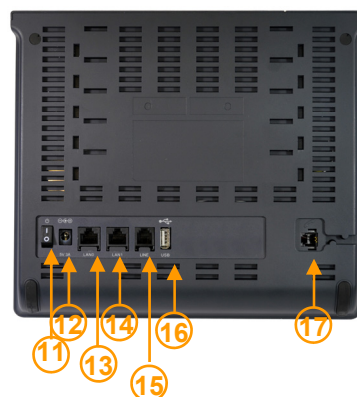
WAN, IP Routing and Other Features

WAN Protocol	Point-to-Point Protocol (PPPoE) for ADSL
IP Routing	IPv4 Static and IEEE 802.1Q VLAN Routing
Network Management	Standard SNMP Agent (MIB v2) Support, Telnet, Web Based Management, Remote Firmware (APOS) Upgrade via FTP/TFTP Support
Security Features	IP Packet Filtering, Access List, Access Control and Data Protections, Enable/Disable for Specific Protocols Multi-level User Account Management, Auto-disconnect for Telnet/Console Sessions, PPP User Authentication Support (PAP/CHAP)
Operation & Management	Performance Analyzing (Process, CPU, Interface), Configuration Backup and Restore for APOS Management, Debugging and Diagnosis Features, System Booting/Rebooting through Watch-Dog, Data Logging Features, IP Traffic Statistics through Accounting Support
Other Features	DHCP Server and Relay, Network Address Translation (NAT), Port Address Translation (PAT), IEEE Standard Transparent Bridging (Spanning Tree Bridging and Concurrent Routing Bridging Protocol), Network Time Protocol (NTP), Cisco Style Command Line Interface (CLI), DNS Proxy, UPnP, MAC Address Filter Service etc.
Control and Setting	OSD (On Screen Display) and Remote Commander

IP Telephony Services (AddPac IP-PBX)

IP-PBX Interworking	SSCP AddPac Proprietary Protocol
IP-PBX Signaling Protocol	SIP Protocol between IP-PBX and IP Phone
Voice Mail	Voice Mail with IVR Voice Mail Notification
Number & Call Routing	Basic Call, Music on Hold, Blind Transfer, Call Pickup, Consult Call, Switching Call, Consult Transfer, Call Waiting, Call Waiting Notify Call Park, Call Pickup Remote, Hunt Group, Call Swapping, individual Call Park, Group Call Park Call Forwarding ? Unconditional, Busy, No Answer, Voice Mail Etc.
Messenger Interworkng	MS Window based Smart Messenger Program Support
Conference	AddPac IP-PBX Audio MCU or External MCU support

Audio, Key, LCD, Network Interface of AP-IP230



1. Graphic LCD
2. Soft KEY
3. Ring Indication LAMP
4. Menu & Volume KEY
5. Phone Book KEY
6. Internal MIC
7. 3.5mm Audio Input/Output (Headset)
8. Mute, Speaker Phone, Headset, Message, Absence KEY (Blue LAMP)
9. Numeric KEY
10. Speed Dial KEY (25 Key)
11. Power Switch
12. External Power Input (DC5V)
13. LAN0 (Fast Ethernet)
14. LAN1 (Fast Ethernet)
15. FXO Interface
16. USB Interface
17. Handset Connector
18. Handset