

ADVANCED MODULE

This module is for integrate with CABLE MODEM, ADSL MODEM, IPTV BOX, ROUTER, SET-TOP-BOX, provide VoIP functions and other advanced functions/ features to them. This module can work in router/ bridge mode, can match for all network situation. On router working module, it can use as a proxy and can let broadcast and multicast pass through, so it's suitable with IPTV box.

VoIP Protocol

- IETF SIP (RFC3261,RFC2543)

Dimension

- L*W*H

Function and Feature

- Router/bridge
- Call and receive call
- Caller ID
- T.38 FAX
- Alarm
- Hotline
- Dial plan
- Pass through fax
- 3 account
- Call forward
- Call hold/retrieve
- Blind Transfer
- Attendant Transfer
- 3-way calling
- MWI

Caller ID

- FSK
- DTMF (optional, only work with FXO module)

Interface

	PIN name	Description
1	TX+	WAN
2	TX-	
3	RX+	
4	RX-	
5	GND	
6	GND	
7	1TX+	Lan1
8	1TX-	
9	1RX+	
10	1RX-	
11	GND	
12	GND	
13	2TX+	Lan2
14	2TX-	
15	2RX+	
16	2RX-	
17	GND	
18	GND	
19	TIP (Phone)	
20	RING (Phone)	
21	TIP (PSTN)	
22	RING (PSTN)	
23	Reset	RESET
24	Power	5V 700mA

25	Power	5V 700mA
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Codec

- G.711 μ -law
- G.711a-law
- G.723
- G.729a
- G.726
- GSM

DTMF

- In band DTMF
- Out-of-band DTMF(RFC 2833), payload is adjustable
- SIP INFO

Security

- HTTP 1.1 basic/digest authentication for Web setup
- MD5 for SIP authentication (RFC 2069/ RFC 2617)

Dial Methods

- Dial number via SIP server
- Dial plan
- Direct dial IP

Voice Quality

- VAD (Voice Activity Detection)
- CNG (Comfort Noise Generation)
- G.168
- Jitter buffer

Telecom Signal

- DTMF dialing
- Accept CPC signal
- Generate CPC signal
- Polarity Reversal

Impedance

- Adjustable

Tone

- DTMF
- Ring Tone
- Ring Back Tone (remote/ local)
- Dial Tone
- Busy Tone

IP Assignment

- DHCP
- Static IP
- PPPoE

NAT Traversal

- STUN

TCP/IP

- IP/TCP/UDP/DHCP/RTP/ HTTP/ TFTP/DNS/FTP/PPTP

Configuration

- Web browser
- Auto-provisioning system for TFTP/HTTP/FTP mode

Firmware Upgrade

- Auto new version check for TFTP/HTTP/FTP mode
- Auto upgrade for TFTP/HTTP/FTP mode

Environmental

- Operating temperature: 0~40°C
- Storage temperature: -20~60°C
- Operating humidity: 20%~80%

