Unicorn ATAs

Unicorn ATA series offer the entry-level IP Telephony user superb audio quality, rich functionalities and interoperability with the leading 3rd party VoIP providers, and compatibility with most service providers.

Unicorn ATA series are compact, work with any PSTN or cordless phone and fax machines and offer the simplicity of plug and dial, making it ideal for the basic IP telephony users.

Unicorn ATAs comparision table

Feature / Model	3001	3101	3002	3112
Ethernet Port	1	2	2	2
NAT/BRIDGE	No	Yes		
DHCP	Client	Client/Server		
FXS	1	1	2	1
FXO	No	No	No	1
FXO/PSTN pass - through	No	PSTN-passthrough	No	FXO
Remote Configure	Integrated IVR,web broswer or TFTP/HTTP			
Voice Mail Indicator	Yes			
Dual SIP Accounts	No		Yes	
Voice Codecs	G.711(a-law,u-law),G.723.1(5.3k/6.3k),G.726(32k),G.729A/B,T.38			
FAX Pass-Through	PCMU and PCMA, T.38 FOIP			

Unicorn ATAs - Hardware Specifications

Feature / Model	3001	3101	3002	3112
Ethernet Ports	1 RJ45 100Mbps	2 RJ45 100Mbps	2 RJ45 100Mbps	2 RJ45 100Mbps
FXS Ports	1	1	2	1
FXO	No	No	No	1
FXO/PSTN pass - through	No	PSTN-passthrough	No	FXO
Lifeline	No	Yes	No	Yes
Adapter (Input / Output)	Input: 100100-240VAC 50-60 Hz Output: +5VDC, 1200mA, FCC/CE/UL certification			
Dimension	70mm (W) ×130mm (D)×27mm (H)			
Weight	0.35kg			
Operation Temperature	32 - 104°F, 0 - 40°C			
Humidity	10% - 90%			
Compliance	FCC/CE	FCC/CE/A-TICK	FCC/CE	FCC/CE

Unicorn 3001

Unicorn3001 is a single port analog telephone adapter based on SIP standard. It features superb sound quality,excellent performance and rich functionalities.

Feature Highlights
Full Feature Voice/Fax-over-IP;
Universal Plug and Dial
Very Highly affordable and effective IP solution

Unicorn 3101

Unicorn 3101 is a next generation internet data,voice,FAX and PSTN integrated access device based on SIP standard. It features a high-level integration including a build-in router,a DHCP server, 1 port FXS telephone gateway, and a PSTN pass through line for toggling operations between SIP and PSTN networks.

Feature Highlights
Full Feature Voice/Fax-over-IP;
build-in NAT/BRIDGE,DHCP server;
1 FXS port;
PSTN Pass-Through Port

Unicorn3002

Unicorn 3002 is a next generation dual ports ATA based on SIP standard which has integrated internet data,voice,FAX and PSTN. It features a high-level integration including a build-in router,a DHCP server, 2 ports FXS telephone gateway.

Feature Highlights
Full Feature Voice/Fax-over-IP;
build-in NAT/BRIDGE, DHCP server;
2 FXS ports

Unicorn3112

Unicorn 3112 is a next generation internet data,voice,FAX and PSTN integrated access device based on SIP standard. It features a high-level integration including a build-in router,a DHCP server, 1 port FXS telephone and a fully programmable FXO gateway, for toggling operations between SIP and PSTN networks. Unicorn3112 supports independent SIP accounts or SIP server platform.

Feature Highlights
Full Feature Voice/Fax-over-IP;
build-in NAT/BRIDGE, DHCP server;
1 FXS port
1 FXO port

Technical Specifications

SIP Accounts allowed	1 SIP Account (Unicorn3001,3101),2 SIP Account (Unicorn3002,3112)
VoIP protocols	SIPv2 - Session Initiation Protocol (RFC 3261, 3262, 3263,3264)
	SDP - Session Description Protocol (RFC 2327)
	RTP- Real-Time Protocol (RFC 1889, 1890)
	RTCP - Real-Time Control Protocol (RFC 1889)
	RFC 2833 X-NSE Tone Events for SIP/RTP
	RFC 2833 AVT Tone Events for SIP/RTP
Network Protocols	IPv4 - Internet Protocol Version 4 (RFC 791)
	TCP - Transmission Control Protocol (RFC 793)
	UDP - User Datagram Protocol (RFC 768)
	ICMP - Internet Control Message Protocol (RFC 792)
	RARP - Reverse Address Resolution Protocol (RFC 903)
	ARP - Address Resolution Protocol (RFC 826)
	DNS- Domain Name Server
	DHCP - Dynamic Host Control Protocol (RFC 2131)
	NTP - Network Time Protocol (RFC 1305)
	SNTP - Simple Network Time Protocol (RFC 2030)
	STUN - Simple Traversal of UDP over NATs (RFC 3789)
	HTTP - HyperText Transfer Protocol
	TFTP - Trivial File Transfer Protocol (RFC 1350)
	UPnP - Understanding Universal Plug and Play
NAT/Firewall Support	Router
	NAT Firewall
	Port Forwarding
	DHCP Client/Server
	PPPoE - Point to Point Protocol over Ethernet (RFC 2516)
Voice Codecs	G.711 - Pulse Code Modulation(a law and u law)
	G.723.1 - 6.4 and 5.3 kbps ACELP/MP-MLQ
	G.726 - 16, 24, 32 and 40 kbps ADPCM
	G.729A - 8 kbps CS-ACELP
	G.729B - Silence Detection/Comfort Noise Generation
Line - echo cancellation	G.168 Line Echo Cancellation
	Echo Canceller for Each Port
	16 ms ~ 64ms Echo Length
	Nonlinear Echo Suppression
	Double -Talk Detection
Fax Support	G.711 Fax Pass-Through
	T.38 - Real-Time Fax Over IP
Telephony	Q.24 DTMF Generation
	Q.24 DTMF Detection
	Caller ID Generation: FSK, DTMF, Bellcore, NTT
	Caller ID Detection: FSK, DTMF, Bellcore, NTT
	3-way Conference Calling with Local Mixing
Quality of Service	Layer 2 Class-of-Service (CoS) Tagging (802.1P)
	Layer 2 (802.1Q VLAN)
	Layer 3 Type-of-Service (ToS) Tagging (RFC 791/1349)
Call Features	Caller ID Display or Block,Call Waiting,Flash,Call Transfer,Hold,Forward,Mute,3-Way Conference
Provisioning	Web Interface or Via Secure Center Configure File for Mas Deployment
	Remote Software Upgrade(via HTTP/TFTP)