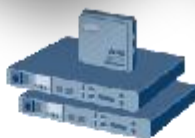




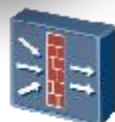
IAD30xx Series Datasheet V2.0



Flexible



Device Cascade



NAT



HD Voice



Advanced
Call Features



Carrier-Grade



FXO Failover



SIP Protocol



Web
Management



Firewall

Choose V-SOLUTION, Choose the best customized partner for GPON & EPON & P2P & VoIP Business!

一、Product Overview

Product	Function	Product	Function
IAD304	4FXS+2FE	IAD3032(32FXS)	32FXS+2FE
IAD3008	8FXS+2FE	IAD3032(16FXS16FXO)	16FXS+16FXO+2FE
IAD3008LC(8FXS)	8FXS+2FE	IAD3048(48FXS)	48FXS+3FE
IAD3016(16FXS)	16FXS+2FE		

二、Technical Specifications

- System power supply: Please see the nameplate on the device
- Ambient temperature: -10 ~ +50°C
- Ambient humidity: 10% ~ 90%(non-condensing)
- Store temperature: -30 ~ +60°C
- Store humidity: 10% ~ 95%(non-condensing)
- For other technical specifications, see the following table:

Model	Dimension (L x W x H)	Power	Power Consumption	Weight(No Power Adapter)
IAD304	160mmx115mmx37mm	+12V, 1A, DC	≤11W	About 410g
IAD3008	250mm×150mm×45mm	+12V, 2A, DC	≤20W	About 732 g
	250mm×200mm×45mm	100~240V, AC	≤20W	About 1000 g
IAD3016	440mm×200mm×45mm	90~260V, AC	≤25W	About 3000 g
IAD3032	440mm×200mm×45mm	90~260V, AC	≤35W	About 3300g
IAD3048	440mm×200mm×45mm	90~260V, AC	≤40W	About 3500g

Technical Parameter-IAD304

- 4FXS , 1WAN, 1LAN VoIP gateway
- Support NAT and Firewall
- Support DHCP server
- For other technical specifications and function, see the following table:

Parameter Name	Hardware Parameter	
	FXS	WAN/LAN
Function interface	4*FXS connect to phone, fax, modem, POS machine etc.	1*WAN, 1*LAN, Fast Ethernet port, auto-adaptive, full/half duplex, AUTO-MDIX, according to IEEE802.3 / 802.3u / 802.3x
Router strategy	WAN to LAN can work in bridging or router mode	
Interface type	2*10/100Mbps, RJ45 connector 4 POTS , RJ11 connector	
Telephone wire transmission distance	< 1000 m	
Indiators	8 indicators, show the status of WAN, LAN, Power, Call agent register	

	and FXS (FXS 1~ FXS 4)
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Parameter Name	Software Parameter	
	FXS	WAN/LAN
VOIP	<ul style="list-style-type: none"> - Support SIP protocol (IMS compatible) - Support primary and secondary sip server to automatic switch - Support voice coding: ITU-T G.711A/G.711U/G.723.1(5.3K/6.3Kbit/s)/G.729, auto-negotiate with call agent - Support echo cancellation exceeding ITU-T G.165/G.168-2002, up to 128ms tail length - Support 10 ~ 180ms adjustable delay jitter - Support call routing. Digit map - Support the DSP gain can be adjusted, -5dB ~ + 10dB - Support caller ID. DTMF and FSK - Support multi-party conferencing, call forward, call waiting, hot-line call, alarm clock, and all kinds of value-added voice service - Support high/low speed fax/modem. T.30 Transparent, T.30 Bypass, and T38 fax - Support in band/ rfc2833/rfc2198/info, md5 authentication - Integrate heartbeat function and support active/standby call agent - Support dial route IP. Calls between two IADs is supported without a SIP server 	
VLAN	<ul style="list-style-type: none"> - Support VLAN 	
QoS	<ul style="list-style-type: none"> - Support TOS - Support DSCP 	
L3	<ul style="list-style-type: none"> - Support IPv4 - Support DHCP/PPPoE/Statics - Support NAT - Support DNS 	
Another network protocol	TCP/IP, UDP, RTP/RTCP, ARP, FTP/TFTP, HTTP, HTTPS, Telnet, ICMP, NTP/SNTP, DHCP Server/Client etc.	
Performance	Call loss: < 0.01%	
Security	<ul style="list-style-type: none"> - Support firewall 	
Management	<ul style="list-style-type: none"> - Support web - Support ivr - Support cli - Support telnet - Support ssh - Support upgrade firmware remotely or on line 	

Technical Parameter-IAD30XX-FXS Series

- 8\16\32FXS, 1WAN, 1LAN VoIP gateway
- Support NAT and Firewall
- Support DHCP server
- For other technical specifications and function, see the following table:

Parameter Name	Hardware Parameter		
	FXS	FE	CONSOLE
Product model	IAD3008,IAD3016,IAD3032		
Function interface	8\16\32*FXS, connect to phone, fax, modem, POS machine etc.	1*WAN, 1*LAN, Fast Ethernet port, auto-adaptive, full/half duplex, AUTO-MDIX, according to IEEE802.3 / 802.3u / 802.3x	
Router strategy	WAN to LAN can work in bridging or router mode		
Interface Type	2*10/100Mbps, RJ45 connector 8/16/32 POTS, RJ11 connector		
Maintenance Interface	IAD's cli control interface(RJ45 connector)		
Telephone wire transmission distance	< 1000 m		
Indicators	3 indicators, SYS, PWR, POTS		

Parameter Name	Software Parameter		
	FXS	FE	CONSOLE
VOIP	<ul style="list-style-type: none"> - Support SIP protocol (IMS compatible) - Support primary and secondary sip server to automatic switch - Support voice coding: ITU-T G.711A/G.711U/G.723.1(5.3K/6.3Kbit/s)/G.729, auto-negotiate with call agent - Support echo cancellation exceeding ITU-T G.165/G.168-2002, up to 128ms tail length - Support 10 ~ 180ms adjustable delay jitter - Support call routing. Digit map - Support the DSP gain can be adjusted, -5dB ~ + 10dB - Support caller ID. DTMF and FSK - Support multi-party conferencing, call forward, call waiting, hot-line call, alarm clock, and all kinds of value-added voice service - Support high/low speed fax/modem. T.30 Transparent, T.30 Bypass, and T38 fax - Support in band/ rfc2833/rfc2198/info, md5 authentication - Integrate heartbeat function and support active/standby call agent - Support dial route IP. Calls between two IADs is supported without a SIP server 		

	<ul style="list-style-type: none"> - Support IAD Expanding. One master and two slave - Support local polyphonic ringtone
VLAN	<ul style="list-style-type: none"> - Support VLAN
QoS	<ul style="list-style-type: none"> - Support TOS - Support DSCP
L3	<ul style="list-style-type: none"> - Support IPv4 - Support DHCP/PPPoE/Statics - Support NAT - Support DNS
Another network protocol	TCP/IP, UDP, RTP/RTCP, ARP, FTP/TFTP, HTTP, HTTPS, Telnet, ICMP, NTP/SNTP, DHCP Server/Client etc.
Performance	Call loss: < 0.01%
Security	<ul style="list-style-type: none"> - Support firewall - Support SIP attack prevention
Management	<ul style="list-style-type: none"> - Support web - Support ivr - Support cli - Support telnet - Support ssh - Support upgrade firmware remotely or on line

Technical Parameter-IAD3048-FXS Series

- 48FXS, 1WAN, 2LAN VoIP gateway
- Support NAT and Firewall
- Support DHCP server
- For other technical specifications and function, see the following table:

Parameter Name	Hardware Parameter		
	FXS	FE	CONSOLE
Product model	IAD3048		
Function interface	48*FXS, connect to phone, fax, modem, POS machine etc.	1*WAN, 2*LAN, Fast Ethernet port, auto-adaptive, full/half duplex, AUTO-MDIX, according to IEEE802.3 / 802.3u / 802.3x	
Router strategy	WAN to LAN can work in bridging or router mode		
Interface Type	2*10/100Mbps, RJ45 connector 48 POTS, RJ45 connector		
Maintenance Interface	IAD's cli control interface(RJ45 connector)		
Telephone wire transmission distance	< 1000 m		
Indicators	3 indicators, SYS, PWR, POTS		

Parameter Name	Software Parameter		
	FXS	FE	CONSOLE
VOIP	<ul style="list-style-type: none"> - Support SIP protocol (IMS compatible) 		

	<ul style="list-style-type: none"> - Support primary and secondary sip server to automatic switch - Support voice coding: ITU-T G.711A/G.711U/G.723.1(5.3K/6.3Kbit/s)/G.729, auto-negotiate with call agent - Support echo cancellation exceeding ITU-T G.165/G.168-2002, up to 128ms tail length - Support 10 ~ 180ms adjustable delay jitter - Support call routing. Digit map - Support the DSP gain can be adjusted, -5dB ~ + 10dB - Support caller ID. DTMF and FSK - Support multi-party conferencing, call forward, call waiting, hot-line call, alarm clock, and all kinds of value-added voice service - Support high/low speed fax/modem. T.30 Transparent, T.30 Bypass, and T38 fax - Support in band/ rfc2833/rfc2198/info, md5 authentication - Integrate heartbeat function and support active/standby call agent - Support dial route IP. Calls between two IADs is supported without a SIP server - Support IAD Expanding. One master and two slave - Support local polyphonic ringtone
VLAN	<ul style="list-style-type: none"> - Support VLAN
QoS	<ul style="list-style-type: none"> - Support TOS - Support DSCP
L3	<ul style="list-style-type: none"> - Support IPv4 - Support DHCP/PPPoE/Statics - Support NAT - Support DNS
Another network protocol	TCP/IP, UDP, RTP/RTCP, ARP, FTP/TFTP, HTTP, HTTPS, Telnet, ICMP, NTP/SNTP, DHCP Server/Client etc.
Performance	Call loss: < 0.01%
Security	<ul style="list-style-type: none"> - Support firewall - Support SIP attack prevention
Management	<ul style="list-style-type: none"> - Support web - Support ivr - Support cli - Support telnet - Support ssh - Support upgrade firmware remotely or on line

Technical Parameter-IAD30XX-SO Series

➤ 8FXS + 8FXO, 16FXS + 16FXSO, 1WAN, 1LAN VoIP gateway

Page 5

- Support NAT and Firewall
- Support DHCP server
- For other technical specifications and function, see the following table:

Parameter Name	Hardware Parameter		
	FXS + FXO	FE	CONSOLE
Product model	IAD3016-SO,IAD3032-SO		
Function interface	8\16*FXS + 8\16*FXO. FXO, Analog trunk port connect to PSTN. FXS, connect to phone, fax, modem, POS machine etc.	1*WAN, 1*LAN, Fast Ethernet port, auto-adaptive, full/half duplex, AUTO-MDIX, according to IEEE802.3 / 802.3u / 802.3x	
Router strategy	WAN to LAN can work in bridging or router mode		
Maintenance Interface	2*10/100Mbps, RJ45 connector 16/32 POTS, RJ11 connector		
CONSOLE Port	IAD's cli control interface(RJ45 connector)		
Telephone wire transmission distance	< 1000 m		
Indicators	3 indicators, System, Power, POTS		

Parameter Name	Software Parameter		
	FXS + FXO	FE	CONSOLE
VOIP	<ul style="list-style-type: none"> - Support SIP protocol (IMS compatible) - Support primary and secondary sip server to automatic switch - Support voice coding: ITU-T G.711A/G.711U/G.723.1(5.3K/6.3Kbit/s)/G.729, auto-negotiate with call agent - Support echo cancellation exceeding ITU-T G.165/G.168-2002, up to 128ms tail length - Support 10 ~ 180ms adjustable delay jitter - Support call routing. Digit map - Support the DSP gain can be adjusted, -5dB ~ + 10dB - Support caller ID. DTMF and FSK - Support multi-party conferencing, call forward, call waiting, hot-line call, alarm clock, and all kinds of value-added voice service. - Support high/low speed fax/modem. T.30 Transparent, T.30 Bypass, and T38 fax - Support in band/ rfc2833/rfc2198/info, md5 authentication - Integrate heartbeat function and support active/standby call agent - Support dial route IP. Calls between two IADs is supported without a SIP server - Support IAD Expanding. One master and two slave - Support local polyphonic ringtone - Support PSTN and SIP translate 		

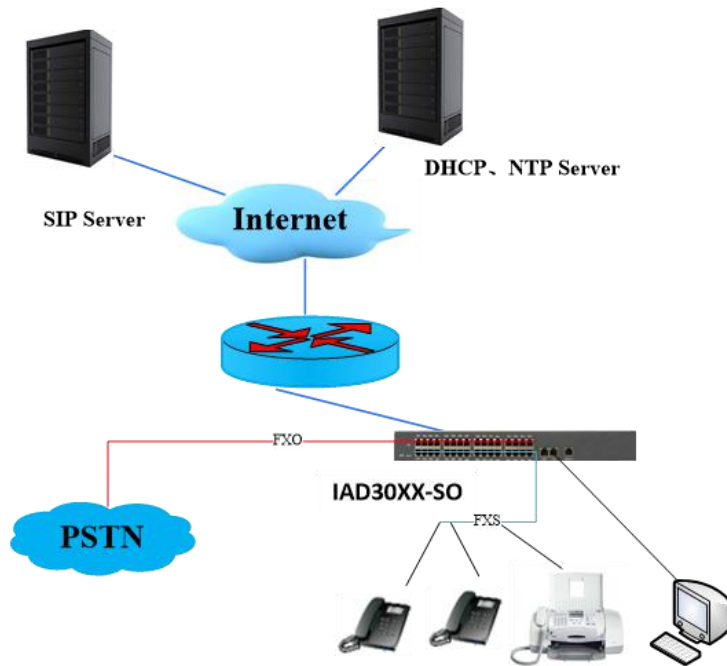
	<ul style="list-style-type: none"> - Support IAD's FXS and FXO binding
VLAN	<ul style="list-style-type: none"> - Support VLAN
QoS	<ul style="list-style-type: none"> - Support TOS - Support DSCP
L3	<ul style="list-style-type: none"> - Support IPv4 - Support DHCP/PPPoE/Statics - Support NAT - Support DNS
Another network protocol	TCP/IP, UDP, RTP/RTCP, ARP, FTP/TFTP, HTTP, HTTPS, Telnet, ICMP, NTP/SNTP, DHCP Server/Client etc.
Performance	Call loss: < 0.01%
Security	<ul style="list-style-type: none"> - Support firewall - Support SIP attack prevention
Management	<ul style="list-style-type: none"> - Support web - Support ivr - Support cli - Support telnet - Support ssh - Support upgrade firmware remotely or on line

Compatibility

Mode	Protocol Type	Compatibility
IMS	IMS SIP	Fully compatible

三、 IAD Series Application

IAD30XX-SO as an example:



IAD30XX Port Expanding Function

