

# IAD30xx Series Datasheet V2.0





Flexible



Device Cascade



NAT



HD Voice



Advanced Call Features



Carrier-Grade



FXO Failover



SIP Protocol



Web Management



Firewall



#### —, 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:  $-10 \sim +50^{\circ}$ C

➤ Ambient humidity: 10% ~ 90%(non-condensing)

> Store temperature:  $-30 \sim +60^{\circ}$ C

> Store humidity:  $10\% \sim 95\%$  (non-condensing)

For other technical specifications, see the following table:

Model	Dimension (LxWxH)	Power	Power Consumption	Weight(No Power Adapter)
IAD304	160mmx115mmx37mm	+12V, 1A, DC	≤11W	About 410g
14.0000	250mm×150mm×45mm	+12V, 2A, DC	≤20W	About 732 g
IAD3008	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			
Tarameter Name	FXS	WAN/LAN		
	4*FXS connect to phone, fax,	1*WAN, 1*LAN, Fast Ethernet port,		
Function interface	modem, POS machine etc.	auto-adaptive, full/half duplex,		
runction interface		AUTO-MDIX, according to		
		IEEE802.3 / 802.3u / 802.3x		
Router strategy	WAN to LAN can work in bridging or router mode			
Interfere type	2*10/100Mbps, RJ45 connector			
Interface type	4 POTS, RJ11 connector			
Telephone wire	4000			
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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	Software Parameter				
Parameter Name	FXS WAN/LAN				
	- 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				
VOIP	- 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	- Support VLAN				
, Elli,	- Support TOS				
QoS	- Support DSCP				
	- Support IPv4				
	- Support DHCP/PPPoE/Statics				
L3	- Support NAT				
	- Support DNS				
Another network	TCP/IP, UDP, RTP/RTCP, ARP, FTP/TFTP, HTTP, HTTPS, Telnet,				
protocol	ICMP, NTP/SNTP, DHCP Server/Client etc.				
Performance	Call loss: < 0.01%				
Security	- Support firewall				
Security	Community and and I				
	<ul><li>Support web</li><li>Support ivr</li></ul>				
	C				
Management					
	<ul><li>Support telnet</li><li>Support ssh</li></ul>				
	<ul><li>Support ssn</li><li>Support upgrade firmware remotely or on line</li></ul>				
	- Support upgrade Infinware remotery of oil file				



### **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:

D	Hardware Parameter				
Parameter Name	FXS FF		2	CONSOLE	
Product model	IAD3008,IAD3016,IAD3032			D3032	
	8\16\32*FXS, connect to		1*WAN, 1*LAN, Fast Ethernet port,		
Enmation intenface	phone, fax, mode	em, POS	auto-adapt	ive, full/half duplex,	
Function interface	machine etc.		AUTO-MDIX, according to		
	IEEE802.3 / 802.3u / 802.3x				
Router strategy	WAN to LAN can work in bridging or router mode			mode	
I4	2*10/100Mbps, RJ45	connector			
Interface Type	8/16/32 POTS, RJ11	connector			
Maintenance Interface	IAD's cli control interface(RJ45 connector)				
Telephone wire	4 1000 m				
transmission distance	< 1000 m				
Indicators	3 indictors, SYS, PWR	POTS	3 indictors, SYS, PWR, POTS		

D. A. N.	Software Parameter					
Parameter Name		FXS	FE	CONSOLE		
	<b>-</b> S	upport SIP pro	otocol (IMS compatible)			
	- S	upport primar	y and secondary sip server	to automatic switch		
	<b>-</b> S	Support voice coding: ITU-T				
	(	6.711A/G.7111	U/G.723.1(5.3K/6.3Kbit/s)	/G.729, auto-negotiate		
	W	ith call agent				
	- S	upport echo c	ancellation exceeding ITU-	-T G.165/G.168-2002,		
	u	p to 128ms tai	il length			
	- S	Support 10 ~ 180ms adjustable delay jitter				
	- S	Support call routing. Digit map				
	- S	Support the DSP gain can be adjusted, -5dB ~ + 10dB				
VOIP	- S	Support caller ID. DTMF and FSK				
	<b>-</b> S	Support multi-party conferencing, call forward, call waiting,				
	h	hot-line call, alarm clock, and all kinds of value-added voice				
	_	ervice				
		11 0	ow speed fax/modem. T.30	Transparent, T.30		
		sypass, and T3				
			d/ rfc2833/rfc2198/info, m			
	- I1	Integrate heartbeat function and support active/standby call				
		agent				
			ute IP. Calls between two I	ADs is supported		
	W	ithout a SIP s	erver			



	<ul> <li>Support IAD Expanding. One master and two slave</li> </ul>			
	- Support local polyphonic ringtone			
VLAN	- Support VLAN			
QoS	- Support TOS			
Qus	- Support DSCP			
	- Support IPv4			
L3	- Support DHCP/PPPoE/Statics			
L3	- Support NAT			
	- Support DNS			
Another network	TCP/IP, UDP, RTP/RTCP, ARP, FTP/TFTP, HTTP, HTTPS, Telnet,			
protocol	ICMP, NTP/SNTP, DHCP Server/Client etc.			
Performance	Call loss: < 0.01%			
Commity	- Support firewall			
Security	- Support SIP attack prevention			
	- Support web			
	- Support ivr			
Managamant	- Support cli			
Management	- Support telnet			
	- Support ssh			
	- Support upgrade firmware remotely or on line			

#### echnical 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					
rarameter Name	FXS	FE		CONSOLE		E
Product model		IAD3048				
	48*FXS, connect to p	ohone, fax,	1*WAN,	2*LAN	f, Fast Ether	net port,
Function interface	modem, POS machine	e etc.	auto-adap	tive,	full/half	duplex,
runction interface			AUTO-MDIX, according to		g to	
		IEEE802		3 / 802.3u / 802.3x		
Router strategy	WAN to LAN can work in bridging or router mode					
Intenfere True	2*10/100Mbps, RJ45 connector					
Interface Type	48 POTS, RJ45 connector					
Maintenance Interface	IAD's cli control interface(RJ45 connector)					
Telephone wire	4 1000 m					
transmission distance	< 1000 m					
Indicators	3 indictors, SYS, PWR, POTS					

Parameter Name	Software Parameter				
Parameter Name	FXS FE CONSOLE				
VOIP	- Support SIP pro	- Support SIP protocol (IMS compatible)			



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### **Technical Parameter-IAD30XX-SO Series**



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

Parameter Name	Hardware Parameter				
r ar ameter Name	FXS + FXO	F	E	CONSOLE	
Product model	IAD3016-SO,IAD3032-SO			2-SO	
	8\16*FXS + 8\16*FX	O. FXO,	1*WAN, 1*	LAN, Fast Ethernet port,	
Function interface	Analog trunk port of	connect to	auto-adapti	ve, full/half duplex,	
runction interface	PSTN. FXS, connec	t to phone,	AUTO-MDIX, according to		
	fax, modem, POS ma	fax, modem, POS machine etc.		IEEE802.3 / 802.3u / 802.3x	
Router strategy	WAN to LAN can work in bridging or router mode			node	
Maintenance Interface	2*10/100Mbps, RJ45 connector				
Wiaintenance interface	16/32 POTS, RJ11 co	nnector			
<b>CONSOLE Port</b>	IAD's cli control interface(RJ45 connector)				
Telephone wire	< 1000 m				
transmission distance	Z 1000 III				
Indicators	3 indictors, System, Power, POTS				

D. A. N.	Software Parameter			
Parameter Name	FXS + FXO	FE	CONSOLE	
VOIP	<ul> <li>Support SIP pro</li> <li>Support primary</li> <li>Support voice of G.711A/G.711U auto-negotiate w</li> <li>Support echo ca up to 128ms tail</li> <li>Support 10 ~ 18</li> <li>Support call rou</li> <li>Support caller II</li> <li>Support multi-puntot-line call, ala service.</li> <li>Support in band</li> <li>Integrate heartbeagent</li> <li>Support dial rou without a SIP se</li> <li>Support IAD Ex</li> </ul>	tocol (IMS compatible) y and secondary sip serveding: ITU-T I/G.723.1(5.3K/6.3Kbit. with call agent ncellation exceeding IT length Oms adjustable delay jit ting. Digit map P gain can be adjusted, - D. DTMF and FSK arty conferencing, call the trum clock, and all kinds w speed fax/modem. T.3 I fax / rfc2833/rfc2198/info, eat function and support the IP. Calls between two	rer to automatic switch /s)/G.729, TU-T G.165/G.168-2002, tter -5dB ~ + 10dB forward, call waiting, of value-added voice 30 Transparent, T.30 md5 authentication t active/standby call to IADs is supported	
	- Support PSTN a	and SIP translate		



	<ul> <li>Support IAD's FXS and FXO binding</li> </ul>		
VLAN	- Support VLAN		
QoS	- Support TOS		
	- Support DSCP		
L3	- Support IPv4		
	- Support DHCP/PPPoE/Statics		
	- Support NAT		
	- Support DNS		
Another network	TCP/IP, UDP, RTP/RTCP, ARP, FTP/TFTP, HTTP, HTTPS, Telnet,		
protocol	ICMP, NTP/SNTP, DHCP Server/Client etc.		
Performance	Call loss: < 0.01%		
Security	- Support firewall		
	<ul> <li>Support SIP attack prevention</li> </ul>		
Management	- Support web		
	- Support ivr		
	- Support cli		
	- Support telnet		
	- Support ssh		
	<ul> <li>Support upgrade firmware remotely or on line</li> </ul>		

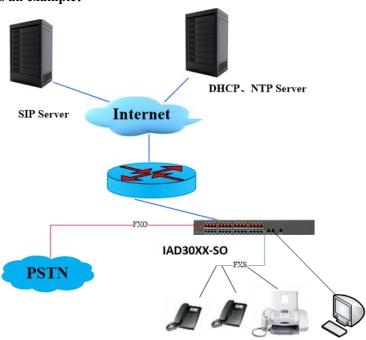
# Compatibility

Mode	Protocol Type	Compatibility
IMS	IMS SIP	Fully compatible



## 三、IAD Series Application

#### IAD30XX-SO as an example:



#### **IAD30XX Port Expanding Function**

