

PA1

Fanvil Paging Gateway

Datasheet

The Fanvil PA1 is a compact audio paging gateway designed for paging and security applications. It uses standard SIP protocols for media streaming and connects to external peripherals to enable audio paging, one-touch intercom calls, and other practical functions. Its compact design supports quick deployment in a wide range of environments and custom integration projects.



Highlights

- Flexible Audio Amplification: Supports 4–8 Ω external speakers and delivers up to 30 W with a suitable power supply, meeting sound reinforcement needs in different spaces.
- IP Paging: Supports SIP registration and multicast reception. It can work with the A330i or a paging server for easy integration into IP paging systems.
- Multiple Audio Sources: Provides Line-in and Line-out interfaces for flexible connection to local audio sources and external audio devices.
- Security System Integration: Provides one dry-contact input and one relay output for connection to external switches and linked security devices.
- Flexible Deployment: Supports PoE and 12–24 VDC power. When both are connected, DC power takes priority, providing flexibility for different installation environments.

Specifications

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Basic Features		2 SIP Lines
		IPC Camera Integration
		IP Address Voice Announcement
		Line-in Audio Input and Line-out Audio Output
		Dry-Contact Input and Relay Output
		12–24 VDC and Power over Ethernet (PoE)
Device Features		Remote Volume Control
		Network Time Synchronization
		Scheduling (Recurring Tasks)
		HTTP API
		Action URL / Active URI
Multicast Features		Multicast Reception
		Multicast Zones
		Priority
		Dynamic Multicast
		Multicast Paging Tone
Audio Features	External Speaker	Frequency Response: Maximum SPL: Impedance: 4 Ω / 8 Ω Rated Power: 30 W
	Narrowband Codecs	G.711A/U, G.729A/B, iLBC, G.723, G.726-32K
	Wideband Codecs	G.722, Opus
	DTMF	In-band, Out-of-band (RFC 2833 / SIP INFO)
Network Features	Ethernet Port	10/100 Mbps Ethernet
	IP Mode	IPv4 / IPv6 / IPv4 & IPv6
	IP Assignment	Static IP / DHCP / PPPoE
	VPN	L2TP / OpenVPN
	VLAN	VLAN
Protocols		SIP 2.0 over UDP / TCP / TLS
		RTP / RTCP / SRTP
		STUN
		DHCP
		IPv6
		PPPoE
		L2TP
		OpenVPN
		SNTP
		FTP / TFTP
		HTTP / HTTPS
		TR-069
Configuration and Management		Auto Provisioning via FTP / TFTP / HTTP / HTTPS / DHCP Option 66 / SIP PnP / TR-069
		Web Management Interface
		Web-based Packet Capture
		Configuration Export / Import
		Firmware Upgrade

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		System Logging (Syslog)
Physical Specifications		1 × Reset Button (Soft Reset)
	1 × DC Input: Power Connection	DC Input: 12–24 VDC / 2 A
		2-pin Pluggable Terminal Block
	1 × RJ45 Port	Internet or LAN Connection
		PoE Supported (IEEE 802.3af)
	1 × Blue LED Indicator	Indicates SIP and Network Status
	1 × Audio Input	Connector: 3.5 mm 3-pole TRS Jack
	1 × Audio Output	Connects to an Amplifier or Powered Speaker
		Connector: 3.5 mm 3-pole TRS Jack
	1 × Speaker Output	Connects to a 4–8 Ω Speaker
		2-pin, 3.5 mm-pitch Pluggable Terminal Block
		Maximum Output Power: 30 W
	1 × Dry-Contact Input	Connector: 2-pin, 3.5 mm-pitch Pluggable Terminal Block
	1 × Relay Output	Relay Contact Rating: 30 VDC / 2 A Max.
		Connector: 2-pin, 3.5 mm-pitch Pluggable Terminal Block
	Enclosure Material	ABS
	Mounting Method	Wall Mount / Surface Mount
	Power Consumption (PoE)	1.07W~11.9W
	Power Consumption (12–24 VDC / 2 A Adapter)	0.55W~32.3W
	Operating Temperature	-20 °C to 50 °C
	Storage Temperature	-30 °C to 60 °C
	Operating Humidity	5%–95%
	Units per Carton	40 pcs
	Net Weight per Carton	4.192 KG
	Gross Weight per Carton	4.580 KG
	Device Dimensions	86*58*27mm
	Package Dimensions	95*35*80mm
	Carton Dimensions	345*197*210mm
	Package Contents	PA1 Paging Gateway × 1
		Mounting Strips × 2
		Quick Installation Guide × 1
		Mounting Template × 1
		Screw Pack × 1
Certifications		CE FC RoHS

About LINKVIL

As a sub-brand of Fanvil, LINKVIL focuses on the research and development of A&V-IoT wireless communication products. Based on Audio & Video -IoT, LINKVIL helps customers to achieve full connection of wireless communication systems and will build a wireless communication Eco-system for multi-scenarios to help different industries accelerate their digital transformation.

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More Information

The above specifications may be updated in the future without prior notice. All hardware/software/physical features should be based on the final shipped products.
For more information, please visit: www.fanvil.com

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