SAMIM
Media & Communication Technologies

IIP-2000-T10D

Desktop IP-based Intercom Panel,
10 Keys

2024 Datasheet

The Samim IP-Based Intercom Solution represents an integrated audio communication system that harnesses digital audio technology over an IP network, ensuring swift, secure, and dependable communication. The IIP-2000 series talkback / paging intercoms aid communication between studios, stages, theaters, offices and different areas in a facility or building complex. They leverage IP technology for audio transport and employ a decentralized, server-less architecture, simplifying network cabling and expansion.

The architecture allows flexible intercommunication design, reducing costs and simplifying configuration by eliminating the need for audio interface cables and a central matrix. Being matrix-free allows for the seamless integration of networked hardware and software equipment as part of planned or ad-hoc changes, without concerns about available matrix ports.

The IIP-2000-T10D is a 10-button intercom, where each button can be defined for communication with another panel. Communication can occur in both half-duplex and full-duplex modes. Colored LEDs in the buttons help to show communication status. Group calls can be achieved through activating multiple buttons simultaneously. The buttons can be configured as Page buttons to communicate with predefined panels. IIP-2000 panels feature one display window for every two buttons, displaying button labels and relevant details about the destination and call status.

Besides built-in speaker and XLR microphone connector, headset connection is also available. The volume level of headset, speaker and microphone can all be controlled with two front panel volume knobs and also offer microphone and speaker mute functions when pressed.

Each unit is equipped with a built-in webserver for configuring settings and making adjustments. This web-based interface also provides access to logs, the ability to create / restore backup files, and facilitates firmware upgrades.

Key Features

- IP-based architecture
- Peer-to-peer (server-less) operation
- No need to central servers or matrices (low cost of initial deployment, operations, maintenance

and security considerations)

- 10x illuminated pushbuttons
- Display window per two buttons
- Momentary or latch button operation
- Standard and widely adapted XLR microphone and headset connectors
- Paging groups with up to 20 destinations
- one-to-one, one-to-many, many-to-many calls
- Digital audio processing (echo cancellation, noise reduction, voice activity detection, AGC)
- Support different codecs (PCM, G.711, G.722)
- 16 / 48 kHz sampling rate
- Encrypted data stream operation
- Web-based user interface via built-in webserver
- Password protection
- Device discovery tool
- Easy configuration and setup
- Configuration backup and restore
- Network ping tool for diagnosis connection
- Log view, filter, and export
- Firmware upgrade
- Flexible and cost-effective solution with easy expansion

Rear View

Specifications

Front Panel	
Number of buttons	10x illuminated pushbutton switches (Red/Green/Yellow)
Volume control	2x rotary encoders with push switch
Microphone connector	XLR 3-pin, female
Headset connector	XLR 5-pin, female
Speaker	4W

Rear Panel	
Network connector	1x 10/100 Ethernet RJ-45
PSU connector	1x IEC C14 Inlet, fuse protected

Electrical	
Voltage	90-260V AC
Frequency	50/60 Hz
Consumption	<25W

Processing	
Network Protocol	RTP (audio streaming), TCP (handshake, control & management)
QoS	DiffServ
Sampling Rate	16 kHz, 48 kHz
Bandwidth	90-7750 Hz (sample rate: 16 kHz) 90-16200 Hz (sample rate: 48 kHz)
THD	-62dB @ 1 kHz
Codec	PCM, G.711, G.722
DSP	echo cancellation, noise reduction, voice activity detection, AGC

Mechanical	
Width	320 mm
Depth	160 mm
Height	90 mm

Environmental	
Temperature	5 °C to 40 °C
Humidity	Max 95% (non-condensing)

Ordering Information

Order Code	Description	Type
IIP-2000-T10D	Desktop IP-based Intercom Panel, 10 Keys	Base
IIP-2000-MIC1	Gooseneck Microphone (JTS GM-5212K)	Accessory

With over two decades of extensive experience in the broadcast and media industry, Samim Group has emerged as a rapidly growing manufacturer and developer of professional-grade hardware and software solutions that cater to Broadcast Production Infrastructure, Intercom Systems, and Media Business Automation. We remain attuned to the latest technological advancements, ensuring we deliver high-standard solutions and products that can be marketed globally.

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