

# FE-SPK-IPC2 - PRODUCT DATASHEET

## CLASSIC WOODEN 10W ACTIVE POE+ SIP-SPEAKER

FE-SPK-IPC2 is an active PoE+ SIP-speaker able to connect to any SIP-server as standard SIP-client and get a phone call as standard SIP-extension.

Easy to install and setup. Classic wooden classroom speaker!

Audio files and voice messages can be streamed live or uploaded to device in order to play them later or periodically from build-in timer/scheduler. Auto-provisioning through IP-INTEGRA SIP-server saves time, especially in the case of large-scale installations. The module can easily integrate with 3<sup>rd</sup> parts SIP-systems through WEB interface.



### On a first glance

- EN 54-24 certification.
- Ball-proof according to DIN 18032, Part 3
- User-friendly WEB interface for remote setup
- Full range speaker
- Designed to wide response for music & speech
- 10W additional output for connecting extra passive speaker
- Self-diagnostic and reporting through e-mail
- Wooden cabinet with protective metal grille
- Easy wall mounting via supplied mounting bracket and mounting accessories

TECHNICAL SPECIFICATION	
<b>HARDWARE</b>	
Ethernet connector	1 x RJ 45
Power options	PoE and or external 5V/1,5A DC
PoE	IEEE 802.3at
Power consumption	Idle 1.8W, max 20W (depending on volume)
CPU	Allwinner H2+, Quad-core Cortex A7
<b>NETWORKING AND PROTOCOLS</b>	
Protocols	IPv4 (with DiffServ), SIP, TCP, UDP, HTTP, RTP, DHCP, SNMP, NTP
LAN protocols	PoE (IEEE 802.3at) Network Access Control (IEEE

	802.1x)
Management and operation	HTTP (Web configuration) DHCP and static IP, Remote software upgrade. Centralized monitoring.
SIP support	RFC3261 (SIP base standard), RFC3515 (SIP refer), RFC2976 (SIP info), SIP using TLS, RFC5630 SIPS Uri scheme
DTMF support	RFC2833, 2976 (SIP info)
<b>OTHER SPECIFICATIONS</b>	
Input	1 X I/O PIN
Output	5VDC & 12VDC output, 3 X Open-Collector @ 2A, up to 15V (used for button RGB LED drive)
Microphone	YES
<b>SPEAKER SPEC</b>	
Rated power	6W
Impedance	8 ohms
SPL (1W/1m)	93dB
Max SPL (rated W/1m)	100dB
Frequency range (-10dB)	100Hz ~19kHz
Dispersion 1k Hz / 4k Hz	175° / 65°
Operating temperature	-30°C ~ +60°C
Power selection	PoE+
Material	Housing: steel
Color and finish	White
Dimensions	265 x 165 x 90 mm
Net weight	2 kg
Mounting	Screw

FREUND ELEKTRONIK A/S, IN COOPERATION WITH ITS SISTER COMPANY FREUND ELEKTRONIKA SARAJEVO, IS DEVELOPING IP-BASED INTERCOM, AUDIO, ACCESS CONTROL AND SMART HOME SOLUTIONS.

WE HAVE MORE THAN 30 YEARS OF EXPERIENCE IN THIS TECHNOLOGY FIELD AS DEVELOPER, MANUFACTURER AND RESALER COMPANY.

IN THE INDUSTRY, WE NEGOTIATE THE MOST INNOVATIVE SOLUTIONS WITHIN BUILDING COMMUNICATION. WE HAVE DAILY FOCUS ON DEVELOPMENT AND USER-FRIENDLINESS AND OUR PRODUCTS HAVE TECHNICAL HIGH QUALITY AND PLEASANT DESIGN.

AS A DEVELOPER AND MANUFACTURER OF OUR OWN IP-INTEGRA SYSTEMS, WE ARE ON TOP OF THE MOST ADVANCED SYSTEMS FOR DOOR TELEPHONY, PUBLIC AUDIO AND ACCESS CONTROL SOLUTIONS.

OUR DEVELOPMENT DEPARTMENT HAVE DEVELOPED, TOGETHER WITH OUR PARTNERS, ELEGANT AND ROBUST DOORPHONES, SIP-CENTRALS, TERMINALS, IP-SPEAKERS, ACCESS CONTROLLERS AND APPLICATIONS WITH INTELLIGENT FEATURES AND THE MOST ADVANCED TECHNOLOGY, BUT AT THE SAME TIME EASY FOR OUR CUSTOMERS TO USE.

FREUND GROUP IS ONE OF THE TOP PROVIDERS ON THE MARKET FOR IP-BASED BUILDING CONTROL AND COMMUNICATION AND RELATED SYSTEMS.