

FE-2X10W-DMOD

2X10W IP-INTEGRA LINUX SIP-AMPLIFIER MODULE DEVELOPED FOR 4M DIN-BOX

FE-2X10W-DMOD is a class-D amplifier module able to connect to any SIP-servers standard SIP-client and get a phone call as standard SIP-extension.

Tones and messages can be streamed live or uploaded to device in order to play them later or periodically from build-in timer/scheduler.

Auto-provisioning option through IP-INTEGRA SIP-server saves time, especially in the case of large-scale installations. The module can easily integrate into 3rd parts SIP-systems through WEB interface.



At a first glance

- Make your own customizable IP-speaker or an IP-amplifier with a Relay
- 4M DIN-box size ready to mount inside of a 4M DIN cabinet
- Group Multicast and individual paging by dialling extension number
- Connect: 2 Passive Speakers, Microphone, Relay I/O pins, USB
- Designed to wide response for musing & speech in max. quality
- Easy SW setup through Web Interface & Auto-provisioning
- AUX audio output - can be integrated with all 100V amplifiers and Voice Alarm Systems with Control inputs or VOX-control

Specification**HARDWARE**

Ethernet Connector	1x RJ 45
Power Options	PoE+ IEEE 802.3at or an external 12V/2A DC
Power Consumption (idle)	1.8 W
Power Consumption	Up to 24W (Volume Dependant)
CPU	AllWinner H2+, Quad-Core Cortex A7

SOFTWARE

Web Interface	Dashboard with HTTPS based configuration, Alarm settings
Sound adjustment	Echo Cancellation, Sound Muting, Silence Suppression, Paging Start/Stop Tone, Microphone Boost/Mute
Scheduler	Bulk Adding, Automatic Fill-out, Ringtone upload
Remote Provisioning	HTTPS, Automatic synchronizing of SIP-server scheduler and sound files
Logging	Calls, Events, and Scheduler Logs

NETWORKING AND PROTOCOLS

Protocols	IPv4, SIP, TCP, UDP, HTTP, RTP, DHCP, NTP
LAN Protocols	Network Access Control (802.1x), PoE(IEEE 802.3at)
Management and operation	HTTP (Web Configuration) DHCP and Static IP, Remote Software upgrade and monitoring
SIP Support	RFC3261 (SIP Base Standard), RFC3515 (SIP Refer), RFC2976 (SIP Info), RFC5630 SIPS Uri scheme
DTMF Support	RFC2833, 2976 (SIP Info)

CONSTRUCTION

Size	71 x 58 x 90 mm (Suitable for DIN box size 4M)
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AUDIO

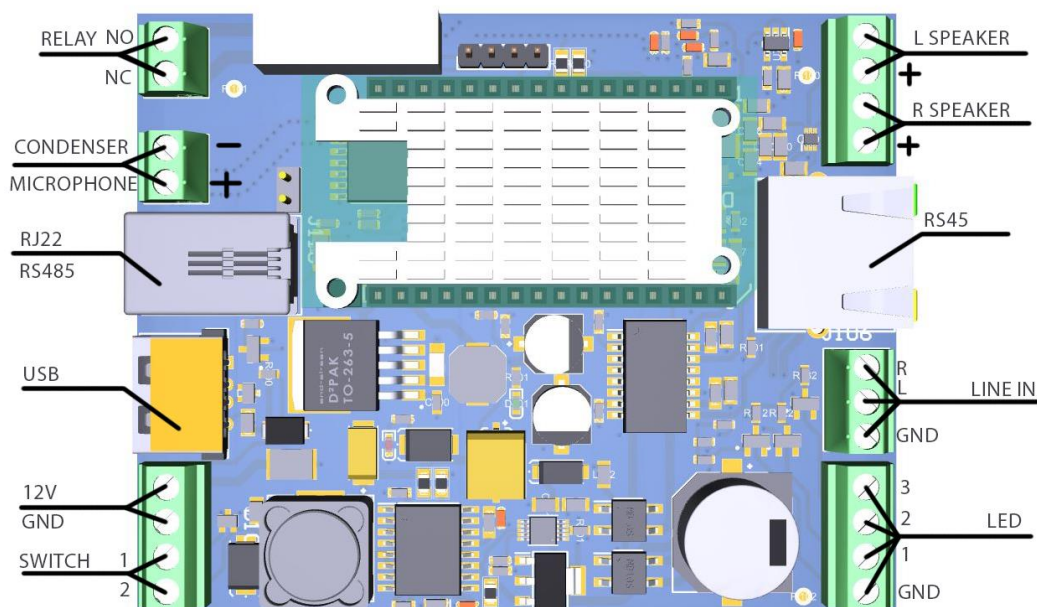
Internal audio amplifier	2x 10W Class D
Low Noise	-90 db
Efficiency	Above 90%
Audio Codecs	MP3, PCM, G.729, G.722, GSM, A-law, U-law
THD+N	0.1% @ PO = 5W, f = 1kHz, RL = 8 Ω

ENVIRONMENT

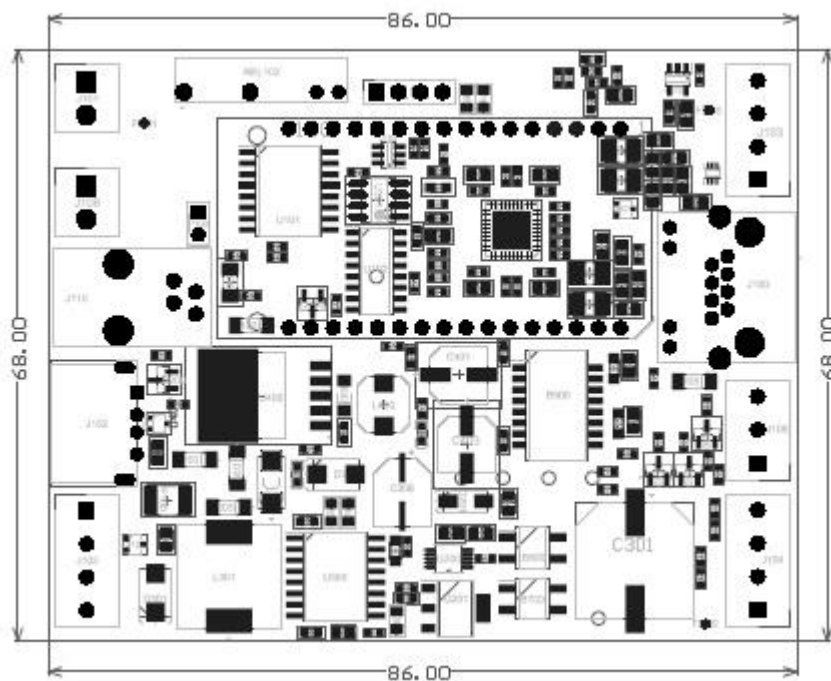
Operating Temperature	-20°C to 70°C
Storage Temperature	-40°C to 70°C
Humidity	10% to 95%

INPUT/OUTPUT

Speaker Output	4-8 Ω , 10W
Line Out	600 Ω , 2V _{pp}
Relay	1x 30V DC – DTMF and XML Controlled
Output	3 Open Collector, 2A up to 15V
Input	Optional for 2 switch buttons, ground activated
Mic	Condenser Microphone Plug
General I/O	USB, RS 485



Dimensions:



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Freund Elektronik A/S, in cooperation with our sister company Freund Elektronika D.O.O. Sarajevo, is developing an IP-Based Intercoms, Audio Systems, Access Control and Smart Home solutions.

As a developer, manufacturer, and reseller, we have been self-improving and perfecting ourselves for over 30 years.

In the industry, we negotiate the most advanced and innovative solutions regarding the building communication. Our daily focus is on the development and user friendliness of our high quality and pleasantly designed products.

As a developer and manufacturer of our own IP-INTEGRA system, we have made a top-of-the-line products for Door Telephony, Public Audio, and Access Control solution.

Our development department, together with our partners, has created elegant and robust door phones, SIP-Centrals, Terminals, IP-Speakers, ACC Controllers, and applications with intelligent features using the most advanced technologies when available, and creating new technologies when they are not while keeping it simple for our customers.

