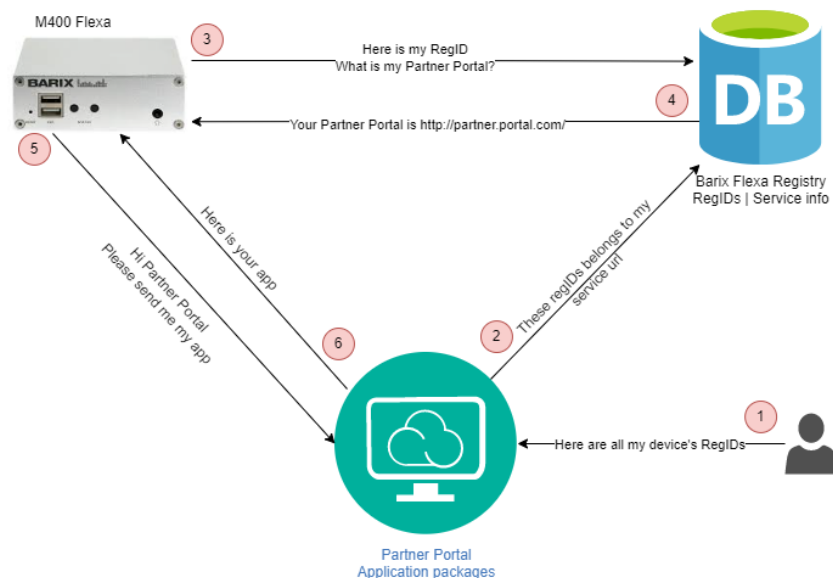# BARIX

# M400 Flexa

Programmable IP Audio Decoder with a line-level output on stereo RCA connections.

The M400 is a multiformat IP Audio Decoder with stereo line level audio output on RCA connectors. The Exstreamer M400 stands as a testament to our commitment to reliability, versatility, and economic value, all wrapped into a next-gen hardware platform powered by the robust IPAM 400 audio module, this model offers enhanced processing capabilities, paired with a flexible software-driven architecture and improved buffer management. With its stereo, line-level, analog audio output through RCA connectors, it efficiently decodes a diverse range of audio formats from MP3 to Opus. Experience advanced security, broader audio format support, and an evolution in technology standards with the Exstreamer M400.

FLEXA is an ecosystem designed for developing simple applications that operate on Barix Flexa devices. One major advantage of FLEXA is that it eliminates the need to compile code and produce images to tailor a device for solving a specific problem. The only requirement is to write a program script, for example in LUA, that runs on the Flexa devices, which can then be deployed on the same. FLEXA applications can be programmed by Barix as a service, and are distributed over the cloud using the Barix FLEXA distribution mechanism.

## Applications

- SIP and IP Paging / Notification
- Background music
- Emergency triggered message playout

## Features

- L-R Line Out on RCA Connectors (unbalanced)
- Multi-level message priority
- AACplus, MP3, G.711, G.722 over RTP
- SIP VoIP endpoint support
- Storage of local audio files for triggered playout

# Technical Specifications

### Operation System

- Embedded Linux based on Yocto

### Network Interfaces

- 1 x Ethernet (RJ45) Interface
- IPv4, IPv6 capable
- 10/100 fdx/hdx, auto negotiation

### Protocols

- TCP/IP, UDP, RTP, SRTP SIP, SIPS, HTTP, HTTPS, DHCP, mDNS/DNS-SD (Avahi), NTP

### CPU / Memory
- Barix IPAM400 Processor Module
- Quad-Core ARM Cortex™ -A7
- 256MB DDR3 SDRAM
- 16MB SPI Flash
- 8GB SD-Card Flash

### Audio Formats

- MP3 CBR/VBR, up to 320 kbps, 8..48 kHz sample freq.
- AAC-HE (AAC, AAC plus, AAC plus V2)
- PCM linear 16bit @44.1 kHz
- G.711
- Opus, WAV, OGG Vorbis

### RS-232 Interface

- Serial Port

### Audio Interface

- unbalanced L-R Line level output on RCA connectors
- Headphone connector on the front panel

### User Interface

- Web interface for configuration
- 2 x Multicolor LED Status indicators
- Reset & Factory Defaults Button

### Power Requirements

- 5VDC, 10W maximum on 5.5x2.1mm barrel connector (inner positive)

### MTBF

- 200'000h

### Measurement

- 108x38x78.7mm (4.25x1.5x3.1 inch)

### Weight

- 250g

### Warranty

- Two years

# Environmental

### Operating Environment
0 to +50°C / 32 to 122°F
0 - 70% relative humidity, non-condensing

### Storage Conditions
-20 to +70°C / -4 to 158°F
0 - 70% relative humidity, non-condensing

### Certifications
CE, RoHS, FCC

# Ordering Information

2019.9279  M400 Flexa EU Package
2019.9280  M400 Flexa US Package
2019.9281  M400 Flexa UK Package
2019.9282  M400 Flexa NoPSU Package

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For commercial related questions (distributors contacts, price list, business opportunities)
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For technical inquiries (problem reports, request for documentation, etc.)
please contact: support@barix.com