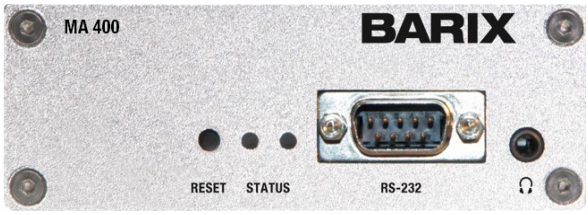
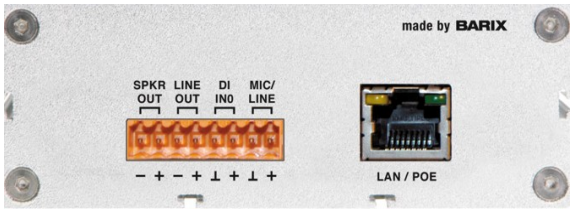
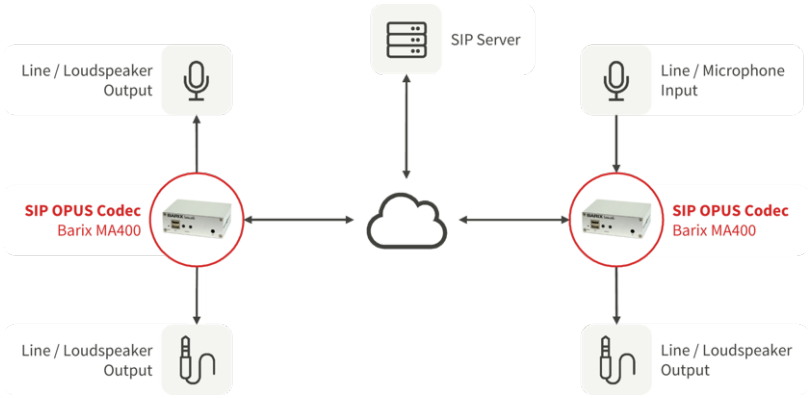
MA400 SIP Opus Codec

Bi-directional mono Opus codec with SIP link negotiation





The MA400 SIP Opus codec enables remote contribution links with SIP and the high-quality, open audio format Opus in a cost-effective solution. The advantages of the royality-free Opus codec are its quality, efficiency and low latency. Combined with the SIP functionality to establish seamless links across VoIP and other IP based communications systems, it is ideal for remote contribution applications. The SIP functionality in the Barix unit allows to dial another device or auto replies to a call and automatically negotiate a transmission link. The unit provides microphone or line input and line and speaker output on both sides. Two units can work togheter or one can interoperate with 3rd party products such as Wheatstone, Comrex or other SIP Opus enabled equipment.



Applications

- Remote Radio Broadcasting
- SIP based STL
- SIP based Studio to Studio Link
- SIP based audio transport

Features

- Bi-Direction Opus Mono Codec
- Microphone /line level input
- 5 Watt 8Ohm or Line level output
- Power over Ethernet (PoE)
- Audio level supervision with SNMP trap generation
- Support of multiple coding standards
- Works with SIP Opus compliant 3rd party equipment
- Simple Player support for RTP stream decoding (alternative to SIP based connection)

Technical Specifications for MA400 SIP Opus Codec

User Interface
- Web interface for control, status and configuration
- HW reset button, two LEDs for status signaling

1 Ethernet Interfaces
- RJ45 10/100 Mbit auto detect (802.3af PoE)
- IPv4
- RS232 (tunneling between 2 units supported)

Supported Codecs
- G.711 (uLaw and aLaw)
- Speex
- GSM
- G.722
- iLBC
- OPUS

Sampling Rate
- 48 KHz

Opus Bandwidth
- Network auto-adaptive up to 256Kbps

SNMP Support
- dial, hangup, status, traps

MTBF
- > 500 000h (according to MIL217F at 25°C)

Simple Player decoder
Alternative to the SIP Opus function, the unit can be put into SIMPLE PLAYER mode decoding MP3 or AAC+ streams over HTTP or RTP. No Encoding or SNMP supported in this mode.

Audio Input (mono)
- Characteristics/mode selectable by software:
  "Mic" mode: bias power for electret microphone
  Line" mode: 2kΩ input impedance 3.9 VPP max, adjustable in sensitivity
- Frequency response 20 Hz .. 18 kHz (-3dB)*
  Dynamic range 87dB, SNR -87 dB, THD <0.1% (-3 dBFS)*

Analog Line Output (mono)
- Transformer isolated, balanced (600 Ω) Output level software controllable
  Full scale output voltage: 5.7 dBu, 4.2 VPP, 4.7 dBm @ 600 Ω
- Frequency response 30 Hz .. 18 kHz (-3dB)*
- Dynamic range 88 dB, SNR -88 dB, THD <tba% (-3dBFS)*

Speaker Out
- 5 Watt max output power @ 8Ω
- Frequency response 25 Hz .. 12 kHz (-3dB)*,
- Dynamic range tba, SNR tba, THD <1% (-3dBFS)*

Case & Weight
- Aluminum case, 280g
- 108x38x78.7mm (4.25x1.5x3.1 inch)
- Rack mountable using optional accessory

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, others in examination

Ordering Information

2019.9260 MA400 SIP Opus Codec

For commercial related questions (distributors contacts, price list, business opportunities) please contact
sales@barix.com

For technical inquiries (problem reports, request for documentation, etc.) please contact
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