



IP AUDIO MODULE

BARIX IP AUDIO MODULE

Universal audio module with dual network and multiple serial interfaces, adding IP based streaming and controller functions to OEM products

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The Barix IP Audio Module allows manufacturers of traditional audio devices to add network streaming capabilities to their products.

Application fields:

Interfacing of digital or analog audio signals to TCP/IP (Intranet and Internet), intercom & paging systems, broadcast equipment, audio monitoring, audio distribution, updatable standalone player, alarm systems, audio recording (live audio transmission)

Features:

- High quality, multi standard audio encoding and decoding in formats: G.711 (μ Law/aLaw, 8 and 24 kHz), 16bit PCM uncompressed (8 and 24 kHz), MP3 (16, 22.05, 24, 32, 44.1, 48 kHz)
- Bidirectional audio transport over IP: Push to talk (PTT), software controlled, audio level controlled, full duplex for G.711
- Dual 100Mbit Ethernet ports
- Microphone input (coil, powered or passive capacitive)
- Standard stereo Line In and 3Vpp audio signal outputs
- 1 S/P DIF Input and 1 S/P DIF Output
- 2 TTL level UARTs, 1 USB1.1 interface, 1 CAN Bus interface
- Small form factor (53mm x 39mm x 6mm)
- Runs off a single +5Volt DC power source (1.6W max.)
- Integrated CPU / MAC / IO controller @ 12 to 125 MHz with on-chip 256 KB zero wait state static RAM
- 2 KB EEPROM for configuration store
- 1 MB Flash memory for application and web server content
- Embedded and robust operating system, fully routable IP stack
- IP standard based protocols (TCP/IP, UDP, HTTP, ICMP, SNMP), supports BootP, DHCP and Auto IP
- Integrated web server for configuration, control, update and streaming functions
- Fully documented Application Programming Interface (API)
- Highly customizable user interface (HTML) with development kit
- Special software features in OEM versions on request