



small Digital Modules for OEM digital connectivity

www.zpeng.com/picodm

Small form-factor modules (8x6 cm) offering a high-quality digital audio interface to various formats; a common connector ensures compatibility among different modules. The picoDM series is constantly evolving, check for firmware updates and new models.

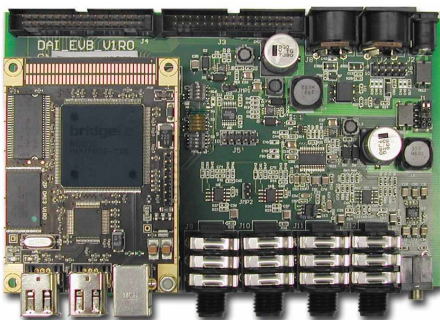
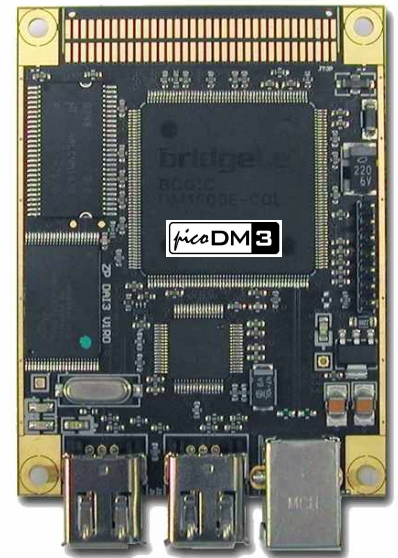
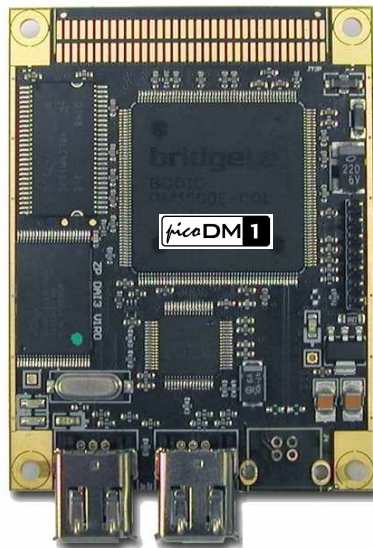
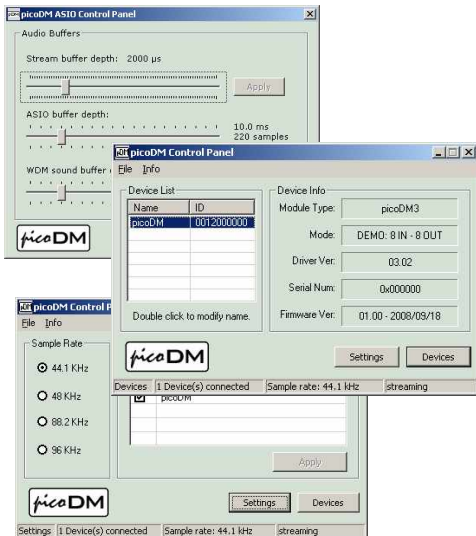
Audio & MIDI over Firewire/USB

The **picoDM1** and **picoDM3** modules offer a stable IEEE-1394 audio interface, with a set of robust MIDI and audio drivers available at no extra cost for Windows XP/Vista (WDM, ASIO) and Mac OS X (Core Audio). The **picoDM3** also offers a USB 2.0 high-speed port that can be enabled at boot time instead of IEEE-1394.

Module name →		picoDM1	picoDM3	
Mode	Format	Firewire	Firewire or USB	
0	I2S DEMO	IEEE-1394a	IEEE-1394a	USB 2.0
1	I2S	8in+8out	8in+8out	8in+8out
2	I2S	8in+8out	8in+8out	8in+8out
3	I2S	12in+12out	12in+12out	12in+12out
4	I2S	16in+16out	16in+16out	--
4	I8S	32in+32out	32in+32out	--

picoDM modules represent an ideal solution for adding digital audio connectivity to an existing project or to custom designs. The included firmware provides all required audio and MIDI functions without additional fees or royalties. Customization options are available for specific requirements.

The standard firmware offers up to 5 modes, allowing adaptation to different needs; all modes operate from 44.1 to 96 kHz. Additional configurations and higher sample rates are available on request.



picoDM Evaluation Board

A stand-alone Evaluation Board allow immediate testing and integration for all picoDM variants, in which DEMO mode 0 includes initialization and control of the on-board audio converter.

- Stereo Line inputs and outputs; headphone output
- Debug RS-232, MIDI IN / OUT sockets
- Two power options: external or bus-powered
- All picoDM digital signals are available on 0.1" header

Engineering driven by passion

ZP Engineering has a strong background in digital audio and industrial appliance design, and has become an official design resource for selected silicon and solution providers in the embedded and digital multimedia world. In-house expertise is available for embedded connectivity (LAN, WiFi, IEEE-1394, USB), embedded operating systems (uClinux and Linux), advanced digital signal processing applications, complex FPGA development, complete product design.

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