

# Basic System Information

This firmware personality for the DecaBox receives RS-232 data and allows full control of a DMX 512 universe, including scene snapshots, dynamic captures and more. Further, via RS-232, MIDI data may be transmitted to downstream devices.

- The system ships with an international switching power supply. System power requirements are 9-12V DC, center positive, 300mA. The power supply connector has standard dimensions of 2.1mm x 5.5mm.
- MIDI data is passed/transmitted via the MIDI OUT 5-pin DIN connector.
- DMX lighting data is generated on the Neutrik 5 pin XLR female jack. If necessary, a 5 pin to 3 pin adapter cable may be used to connect various lighting fixtures.

The DecaBox USB port is used for firmware updates. *It does not accept MIDI data.*

Originally, the lighting guys wanted to keep their wiring separate from the audio crew, who were using XLR-3 microphone cable; thus the 5 pin lighting data standard. However, in nearly every current implementation of DMX control only pins 1, 2 and 3 are used. The 5 pin connectors cost about \$2 more in quantity, so some manufacturers eschew them for less expensive 3 pin versions. Professional and touring gear still relies nearly exclusively on the 5 pin infrastructure. In either case, pin 1 is ground, pin 2 is 'data complement' or D- and pin 3 is 'data true' or D+.

Revision #4

Created Sun, Nov 10, 2019 2:27 AM by ESINC

Updated Sun, Nov 10, 2019 3:15 AM by ESINC