

Infosheet – MIDIBox Hardware Platform

A set of 7 fully populated(*) PCBs from the MIDIbox MB Hardware Platform:-

1. LPC17 based MBHP_Core V1.0 - [Datasheet](#)
2. DOUT R5 - [Datasheet](#)
3. DIN R5 - [Datasheet](#)
4. AINSER64 V1 - [Datasheet](#)
5. AOUT_NG R1 - [Datasheet](#)
6. MF_NG V1 - [Datasheet](#)
7. SID R3A - [Datasheet](#)

The Datasheet links take you directly to the relevant page on the MIDIbox website (The Datasheet links take you directly to the relevant page on the MIDIbox website (uCApps.de)).

The following additional notes apply to each of the PCBs:-

- 1 LPC17 based MBHP_Core V1.0
 - 1.1 The LPC17-Link is NOT separated from the LPCXpresso. The requisite 3v3 line has been cut as per the MIDIbox instructions
- 2 DOUT R5
 - 2.1 No modifications made
- 3 DIN R5
 - 3.1 No modifications made
- 4 AINSER64 V1
 - 4.1 The External Supply option has been installed allowing the user to select (via a jumper) either the External Supply (Etx.) or the internal Digital Supply (Dsi.) which is supplied via J2 (which is usually connected to J19 of the MBHP_Core)
 - 4.2 It is important to note that unused analog inputs must be tied to 0V to prevent the MIDIbox from transmitting random (junk) MIDI events. The users should read the Datasheet to determine the best approach
- 5 AOUT_NG R1
 - 5.1 The module includes the optional bipolar circuitry allowing the user to select (with jumpers) either unipolar or bipolar operation for each channel. The board is supplied with jumpers set for unipolar operation but additional jumpers are included to allow selection of bipolar operation
 - 5.2 The module is supplied uncalibrated and so the user will need to perform this operation to achieve proper operation – see Datasheet
- 6 MF_NG V1
 - 6.1 This module has 5-pin DIN MIDI IN and MIDI OUT sockets installed on the PCB. For those wishing to install the module in a unit without requiring direct access to these onboard connectors, 2x 3-pin pads are accessible from the underside of the module to which your own MIDI connectors can be connected.
- 7 SID R3A
 - 7.1 This module has been configured for the 6851 (*not included). The board can be modified, if desired, to use the 8580 – the user must read the Datasheet to ensure that all the appropriate parts are correctly adjusted (C1, C2 and IC4)

