

SIGNUM SYSTEMS CORPORATION

JTAG and MPSD Adapters for TMS320 Emulators

JTAG Adapter

ADA-JDS-TMS

The Signum JTAG adapter ADA-JDS-TMS provides a physical interface between JTAGjet and JDSnet emulators for TMS320 DSP processors and a target board. The 14-pin ADA-JDS-TMS is designed to work with the vast majority of the TMS320 microprocessors, except for the 3x DSPs. (An adapter for the 3x family is described in the next section.) The adapter has double-row, polarized, .100" × .100" (2.54 mm × 2.54 mm) receptacles (female connectors). Its pinout and dimensions are shown below.

ADA-JDS-TMS-LV

Your emulator can also be ordered with a low-voltage, or—if so desired—with both standard and low-voltage—variants of the adapter for DSP devices. These two variants have slightly different dimensions (Figure 2). The voltage range of the low-voltage adapter is 1.4 – 4.0 V.

Caution: Voltage higher than 4.0V may permanently damage the low-voltage adapter.

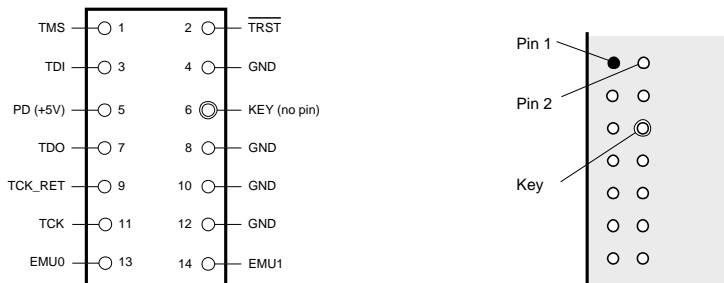


FIGURE 1 Pinout of the 14-pin ADA-JDS-TMS adapter for JTAG-based TMS320 DSPs. On the right, a top view of a matching connector layout for a target PCB.

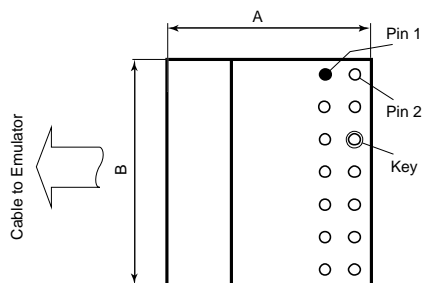


FIGURE 2 Dimensions of the 14-pin JTAGjet adapter for OMAP. Top view. A = 18.5 mm (0.73 in.) [low-voltage: 23.0 mm (0.9 in.)], B = 18.3 mm (0.72 in.).

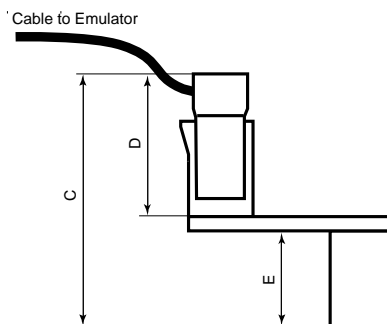


FIGURE 3 Dimensions of the 20-pin JTAG adapter for ARM. Side view. C = 22.7 mm (0.88 in.) D = 15.0 mm (0.59 in.) E = 11.0 mm (0.43 in.).

MPSD Adapter

ADA-JDS-MPSD (JDSnet only)

The Signum MPSD (modular port scan device) adapter, ADA-JDS-MPSD, provides a physical interface between the JDSnet emulator for the TMS320 3x family of DSPs and a target board. The adapter has 12 double-row, polarized, .100" × .100" (2.54 mm × 2.54 mm) receptacles (female connectors). Its pinout and dimensions are shown below.

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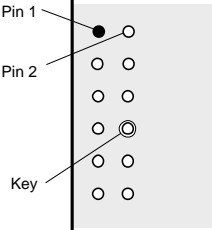
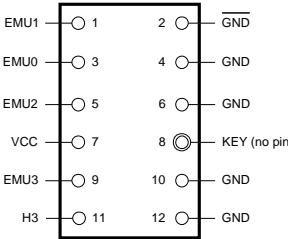


FIGURE 4 Pinout of the 12-pin ADA-JDS-MPSD adapter for the JDSnet emulator and TMS320 3x DSPs. On the right, a top view of a matching connector layout for a target PCB.

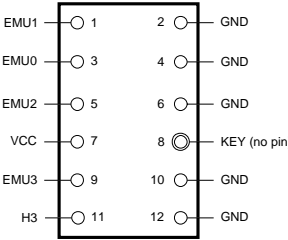


FIGURE 5 Dimensions of the ADA-JDS-MPSD adapter. Top view. A = 23 mm (.9 in.), B = 16.5 mm (.65 in.).

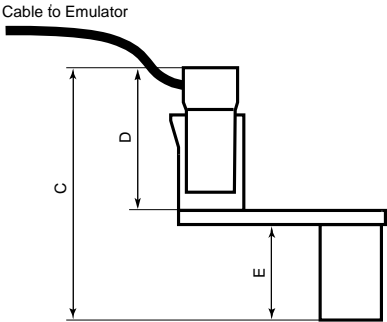


FIGURE 6 Dimensions of the ADA-JDS-MPSD adapter. Side view. C = 24 mm (.95 in.), D = 14.7 mm (0.58 in.), E = 8.5 mm (0.34 in.).



TMS320-JTAG-Connectors 10.7.04.12.37 260