TRENTON

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IOB32 expansion board with Trusted Platform Module(TPM) support
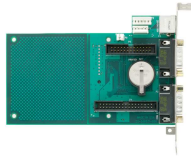
Description

Trenton's IOB32 is an optional, plug-in module that enables Trusted Platform Module or TPM functionality in a system using a Trenton PICMG 1.3 system host board. Two versions of the IOB32 are available for use on the Trenton TQ9 SHB or any model of Trenton's MCX- or MCG-series of SHBs. The model IOB32MC (model number 6830-002) supports the TPM 1.2 functions while providing expanded I/O support for serial communication ports, floppy drive and parallel printer interfaces, PS/2 pointing devices and keyboards. Model IOB32NI (6830-001) only provides TPM 1.2 support for systems that do not need expanded I/O functionality. A controlled impedance connector provides a high-integrity electrical connection between the IOB32 and the SHB and mounting hardware is included to provide a robust mechanical connection between the IOB32 and the SHB.

FEATURES

Enables implementation of Trusted Computing in PICMG® 1.3 systems
Atmel® Trusted Platform Module (TPM) provides advanced data encryption and computing platform security. See IOB30 Technical Manual for more information.
TPM 1.2 compatibility and legacy I/O support (6830-002 version)
TPM 1.2 compatibility only (6830-001 version)
Controlled impedance connector and mounting posts provides robust connection with secured mounting to a Trenton PICMG 1.3 system host board (SHB)
Legacy I/O support for PS2 devices, serial communication ports, floppy drive and parallel printer interfaces (6830-002 version)
I/O bracket includes MiniDin connector for PS2 mouse and keyboard and two DB-9 serial communication ports (6830-002 version)
On-board headers supoprt floppy drive and parallel printer interfaces (6830-002 version)
on-board headers support seperate PS2 keyboard and mouse connections (6830-002 version)

SUGGESTED BACKPLANES

All PICMG 1.3 backplanes

Suggested SHB/SBCs

MCXT
MCXT-E
MCXI
MCXI-E
MCGT
MCGT-E
MCGI
MCGI-E
TQ9