

Product Change Notification

Date: 2015-01-23

Products affected:

VDX104+2E

Purpose of change:

Change part number to permit specifying of required options. Replace EOL components and improve functionality.

Identification of new version:

PCB version V3

List of changes and features:

Change to part number:

The VDX104+2E pcb revision V2 was a full build. The VDX104 pcb revision V3 identifies some on-board functions as options and permits specifying them in the part number. The following part number and options apply:

- VDX104+2E pcb revision V2: Full build. Options available are for specifying PC/104 and PCI-104 bus type and conformal coating. Standard bios version A5.
- VDX104[+/-][2E][-SFx][-USD][-UD] pcb Revision V3 where:
 - [+/-], For PC/104 and PCI-104 bus specify "+". For PC/104 bus only specify "-".
 - [2E], For 2nd LAN port specify "2E".
 - [-SFx], for 8MB SPI flash specify "-SF8". For for 16MB SPI flash specify "-SF16".
 - [-USD], for microSD support specify "-USD".
 - [-UD], for USB Device port specify "-UD".

Change to hardware:

The following hardware changes have been made for the pcb revision V3 model:

- Due to obsolescence of the Intel controller 82551 the 2nd ethernet controller has been replaced by an SMSC USB ethernet controller LAN9500A.
- All capacitors arrays has been replaced by 0402 capacitors of the same values.
- All ferrite bead arrays has been replaced by 0402 ferrite bead of the same values.
- Re-route PCI master signals of the ethernet controller back to the PCI-104 bus to allow for a 3rd PCI master device.
- Modify the Compact flash connector footprint to allow for an alternate parts.
- Modify the micro-SD connector footprint to match the new micro-SD connector and to allow for an alternate parts.
- Add I2C components and circuitry to monitor and adjust the processor core voltage.
- Add an I2C Temperature sensor with 256b EEprom.
- Add an I2C RFID tag.
- NOTE: The newly added features reside on the I2C bus and are disabled by default. They can be enabled by software.
- Standard bios is version A6. Bios version A5 and previous customized bios versions can be supplied. Contact Tri-M for details.