GETTING STARTED

TAP-BN

Overview

The TAP-BN is the debug port adapter for Intel® **Banias** processor target systems using a 478-pin uFCPGA package. It provides debug access to target systems that have been designed or built without a debug/ITP port or systems where the built-in debug/ITP port is not operating correctly.

Unpacking the Equipment

Carefully remove the equipment from the box and refer to the enclosed packing list to ensure that you received all items.

TAP-BN Installation

1. Remove the processor from the target and insert it into the TAP-BN. Ensure that the processor is correctly inserted into the socket on the TAP-BN.

   Note: This socket is not keyed; Pin 1 is identified by the RED inked corner. Disregard the socket pin indicators on the TAP-BN.

2. Carefully insert the TAP-BN (with processor) into the target processor connector. Ensure that the TAP-BN is correctly inserted into the target board socket with pin 1 of the processor oriented to the motherboard socket. The TAP-BN pins have been keyed to assist placement.

3. If the system has a built-in debug port, it is possible that three (3) debug signals have not been connected to the processor socket:
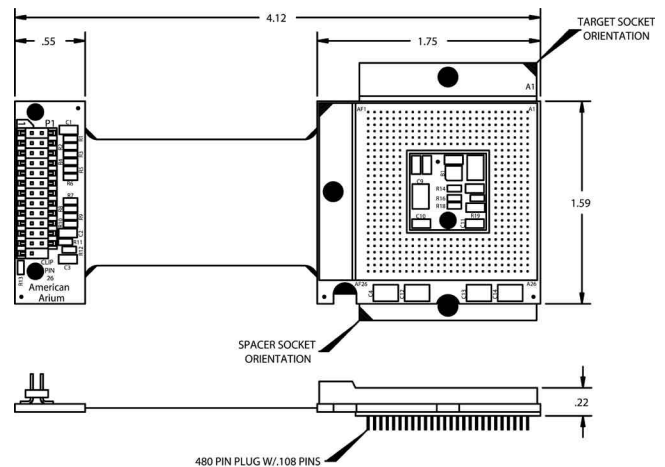   • ITP_CLK0
   • ITP_CLK1
   • DBRESET#.

   Some systems may be reconfigurable to route the two clocks to the socket instead of the built-in debug port. These clocks are REQUIRED by the TAP-BN.

   If DBRESET# is not connected to the processor socket, connect the reset adapter

(yellow and black twisted pair cable provided with the ECM-20) between the target system's reset connector (if available) and the base unit connector labeled "TARGET RESET OUT".

Note: The reset adapter is not polarized and does not need to be connected in any particular orientation since it is effectively just a switch closure. It should be connected to the target system wherever a reset switch would normally be connected.

4. Connect the PBDS-BN to the P1 connector of the TAP-BN using the PBDI-BN interface module.

5. Connect the entire PBDS-BN assembly to the base unit via the 40-pin connector.

If you have any problems or questions, contact Technical Support at 877-508-3970 toll free in the US, 714-731-1661 in North America, or via e-mail at support@arium.com. International customers should contact their Arium distributors.

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