T4240 Network Processing Board

1. Description:

The T4240 Network Processing Board is a high-performance computing evaluation, development and test platform supporting the T4240 QorIQ Power Architecture processor. T4240 Network Processing Board is optimized to support the high-bandwidth network connectivity.

2. Specifications

Freescale Power QorIQ T4240 multicore processor

NAND Flash - 4Gb (MT29F4G08)

EMMC - 4Gb (MTFC4GGQDQ)

1 x SD Memory card slot

3 x 64-bit DDR3 SDRAM memory slots

4 x Tamper detection inputs (2 x onboard, 2 x External input)

2 x UART

2 x USB 2.0 ports

4 x I²C Interface header

4 x 10G Ethernet ports

8 x 1G Ethernet ports

6 no's of 8X PCIe slots

2 no's of 16X PCIe slots

Modularized power supply for CPU and peripheral subsystems

CPU Thermal management: Peltier diode + thermal pipe heat transfer methods

Board size: To be decided

<u>Note:</u>

Freescale reference design uses 20layer PCB stack-up. Target board PCB layer stack-up will be decided

based on the design complexity.