

HSMC CX4 Adapter Board

The High Speed Mezzanine Connector (HSMC) adapter board can be used with 10G Ethernet applications using CX-4 copper interfaces.

The CX-4 copper interface is specified by IEEE 802.3ak and implements 4 differential signal pairs per direction with a signaling rate of 3.125Gbps each. The cables implement coaxial wires for each pair allowing distances of up to 15m as defined in the standard. However the board has been tested with 0.5 and 1m cables.

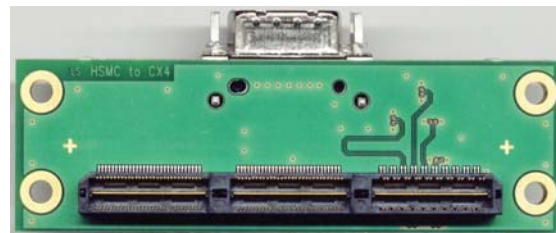
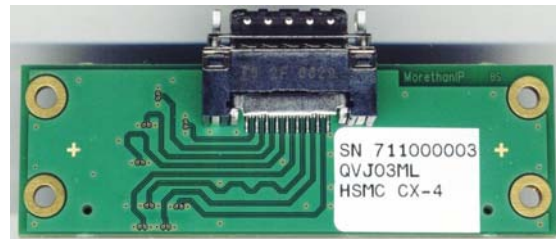
The board is a passive adapter converting the HSMC connector to a CX-4 plug. The daughter board gives designers the ability to implement 10G Ethernet solutions for prototyping and evaluation using inexpensive CX-4 copper infrastructure cabling.

The board is designed for use in combination with Altera development kit mainboards with embedded SerDes technologies like the Stratix-II GX device.

In combination with the MorethanIP 10G Ethernet MAC and XGXS (XAUI) cores the board allows to quickly design, implement, prototype and test high performance 10G Ethernet Telecom or Industrial applications.

Features Overview

- Uses 160-pin Altera High Speed Mezzanine Card connector (HSMC v1.2) to interface to the mainboard
- 4-lanes differential connector (CX-4) according to 10G Ethernet Standard IEEE 802.3ak
- Compatible with Altera Stratix-II GX development mainboards



Deliverables

- HSMC to CX4 adapter board
- Reference Guide
- Schematics

Ordering Information

MTIP-HSMC-CX4