

## Board Features

Cornet's High speed Ethernet Interface Board C13114 is an Extended Double Euro board capable of converting Multichannel Single and differential parallel data into Ethernet data.

The module has five independent nodes, each Node receives 16 bit parallel data along with the clock. The data gets processed in each node, packets are formed and sent it out through Ethernet interface.

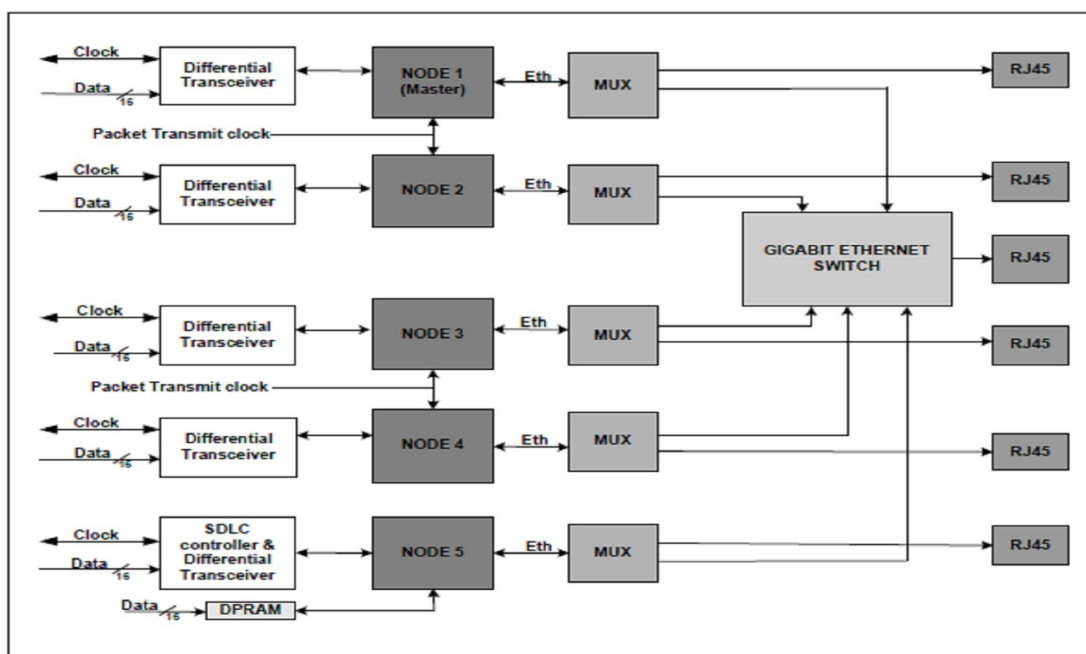
Multiport Ethernet switch is part of the board to make it flexible to select the data from any of the nodes at any point of time.

On board BRAMs store the 16 bit parallel data from each node and that is read and processed by every node. An ARM Processor, FPGA and Ethernet MAC /PHY forms each node. The Node five is capable of accepting three channel SDLC signals in addition to the parallel data.

## Board Specifications

- 16 bit parallel differential input or two 16 bit words of single ended data input for each node.
- Node-1 work as Master mode and remaining nodes work as slave mode. Nodes are configurable.
- Ethernet output from each node supports 10/100 Mbps and Gigabit Ethernet Switch supports 10/100/1000 Mbps.
- Power Supply input to the board is +5V and 3.3V is generated On Board with voltage converters.
- Differential Receiver for each node for inputs.
- Supports 3 channel SDLC protocol operation and 64KB DPRAM for shared memory purpose
- Extended Temperature operation in the range of -40 to + 85 deg C.
- PCB Form Factor -Extended Double Euro and PCB Dimension - 233.4mm X 220mm.

## BLOCK DIAGRAM



In the interest of continuous improvement, Cornet Technology, India, reserves the right to change specifications without prior notice