

Internal Side Card 1 (ISC-1)



Features

- Optional side card expansion for the PC7 Single Board Computer (SBC)
- 6U height of assembly (side card + PC7 SBC)
- 4 additional front panel RJ45 ports with
 2.5 G Ethernet
- 4 independent Intel ® i225-IT Ethernet
 Controllers support 2500BASE-T, 1000BASE-T,
 100BASE-TX and 10BASE-TE
- Time-sensitive networking (TSN) capability support
- Automatic cross-over detection function (MDI/MDI-X)
- Additional microSD card reader for mass storage
- Each Ethernet port has its own MAC address
- 2 indicator LEDs per Ethernet port (link+speed)

Front panel IO:

- 4x RJ45 jacks
- 4 individual Intel ® 225-IT networking interface controllers (NIC)

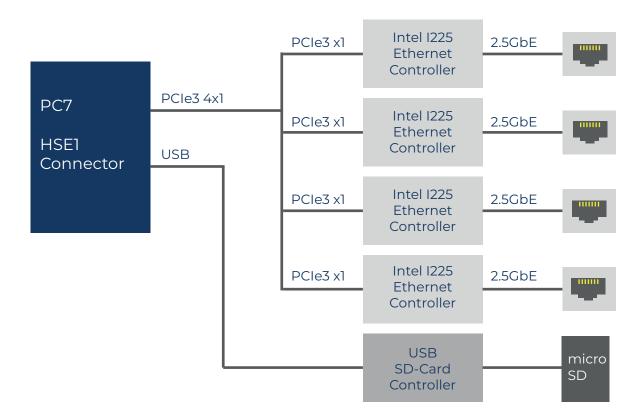
Available data rates:

- 10Mbit/s (10BASE-Te)
- 100Mbit/s (100BASE-TX)
- 1000Mbit/s (1000BASE-T)
- 2500Mbit/s (2500BASE-T)
- IEEE 802,3 IEEE802.3u/ab

Internal IO:

- microSD(HC) card
- Operating temperature range
- 0°C 70°C

Block Diagram



Front view



Note

ISC-1 expands PC7 by additional Ethernet ports that are implemented as RJ45 connectors on the front panel. The Ethernet ports are directly connected to the PC7 via PCIe and enable a data transfer rate of up to 2.5 Gbit/s each. Furthermore, a microSD card reader enables the use of microSD cards, e.g. for storing configuration data.

Please note that the ISC-1 can only be used in conjunction with the PC7 Single Board Computer!













