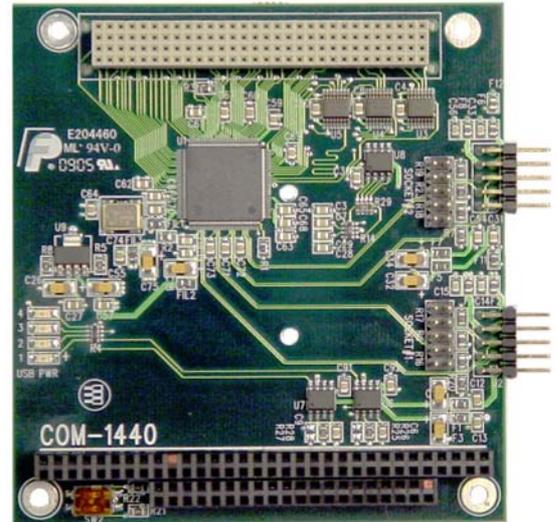


### Features

- Philips ISP1561 PCI-bus USB 2.0 host controller
- Four independent USB 2.0 downstream ports
- OHCI 1.0a and EHCI USB 0.95 compliant
- PCI bus compliance with PCI Rev 2.2, 32-bit bus
- Two standard 500mA drive USB ports, two enhanced drive ports with 2000mA drive capability
- Supports up to 4096MB onboard secure high speed Flash memory
- Two uDOC compatible sockets
- Four status LED s indicating USB port switch status
- -40 to +85°C operating temperature range
- Dimensions: 90 X 96 mm (3.6"X3.8"), height 15 mm (0.6")

### Application areas

- Vehicle and Mobile computers
- Mass storage device interfacing
- Video camera interfacing
- USB Data loggers
- High speed Flash SSD storage



### Options

- Conformal coating
- uDOC devices mounted on board

### General Description

The COM-1440 high speed USB 2.0 board is designed to interface various standard USB devices. Application coverage is increased with the introduction of two high power USB ports allowing direct powering of devices from the COM-1440 board. Two of the four downstream ports support 500mA drive and two ports can supply up to 2A. These switches allow powering of USB devices through the cable simplifying power supply design of the system. Ideal applications for the COM-1440 board include various removable or fixed mass storage media, USB memory keys, printers, cameras, CD drives etc. Devices such as a high speed USB 2,5" hard drive The USB header pin outs follow the general standard scheme of USB ports.

The COM-1440 is designed to accept two M-Systems uDOC secured and encrypted solid state flash disk devices with capacities ranging from 64 to 2048MB each. These devices are accessible as independent logical disks and are available in extended temperature ranges of -40 to +85°C. The two memory device sockets are connected in parallel with two of the external USB ports. High performance on-board rugged extended temperature range solid state storage with high throughput rates (20MB/sec read and 10MB/sec write) using USB 2.0 is the modern design approach to advanced embedded systems.

The Philips PCI-bus high performance USB controller supports all Hi-Speed USB transfer speed modes: high-speed (480 Mb/s), full-speed (12 Mb/s) and low-speed (1.5 Mb/s). The four downstream ports allow simultaneous connections of USB devices all working at different speeds. Compliance with USB 2.0 and 1.1 devices is guaranteed at all speeds.