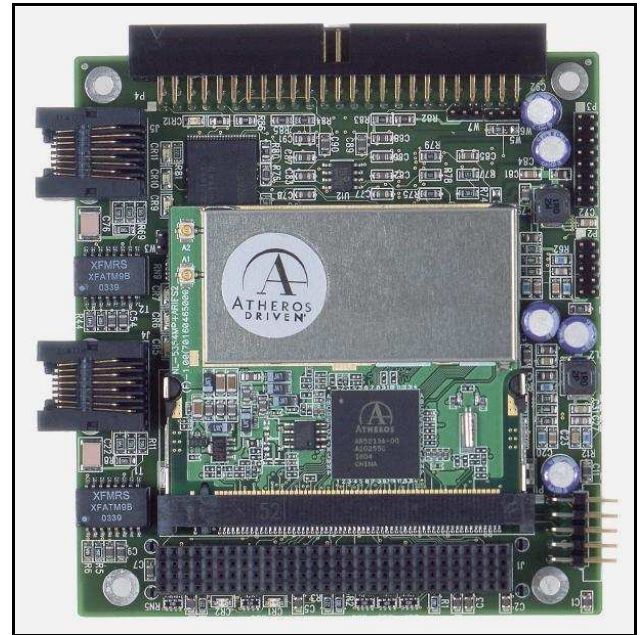


## 4C81 PC/104-PCI WIRELESS CPU

- Low Power ARM CPU ~2 Watts
- Low Cost
- Mini PCI-3 Expansion for Wireless
- PC/104-PCI compatible bus expansion
- 3 PCI bus masters
- 2 x 100BaseT Ethernet interfaces
- 32M or 64M RAM
- Up to 128M NAND flash
- RS-232 Serial port
- 5V only operation
- 0 to 70C standard -40 to +85C available
- NetBSD and Linux Supported
- JTAG debug connector
- Made in USA - local support
- 2 year warranty



The 4C81 is a low cost, low power ARM based PC104-PCI CPU. Designed for networked applications, the 4C81 has two 10/100 baseT Ethernet interfaces and a slot for a WI-FI card or other Mini-PCI device.

The 166 MHz CPU card consumes less than 2 watts total from a single 5V supply, making Solar powered applications practical.

System resources include 32M or 64M of RAM and 32M of NAND Flash memory and an RS-232 serial port..

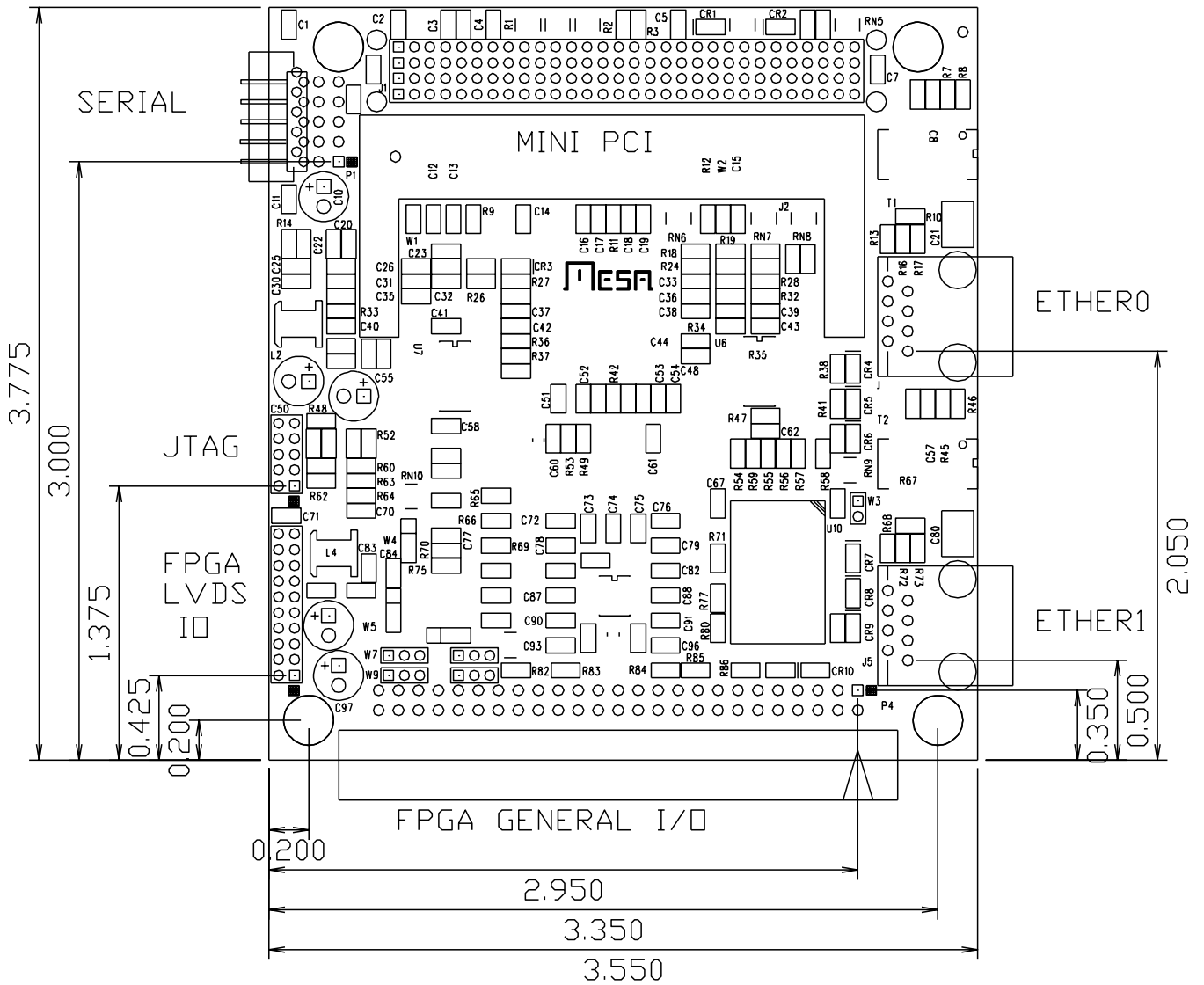
The Ethernet interfaces generates hardware TCP checksums allowing close to wire speed routing through the 4C81.

An optional on card 200K or 400K gate Spartan3 FPGA with 32 bit local bus connection provides flexible user I/O or a custom processing accelerator.

The FPGA has 36 User I/O pins available, 24 on a standard 50 pin header with interleaved grounds, and 12 on a 20 pin 2MM header organized as 6 LVDS pairs with grounds between pairs.

The 4C81 can run Linux or NetBSD and has a jumper selectable netboot option with NFS support to allow simple system debug and software development.

PC/104-PCI



**EXAMPLE ORDERING INFORMATION:**

- |                   |  |
|-------------------|--|
| 4C81-R32F32       | 4C81 32M RAM 32M NAND Flash                      |
| 4C81-R64F32       | 4C81 64M RAM 32M NAND Flash                      |
| 4C81-R64F32-FPGA4 | 4C81 64M RAM 32M NAND Flash - 400K Spartan3 FPGA |

Add -I for industrial temperature range.