104-1481CLDN

PC/104 486-Level SBC with CPU/Memory/LCD/VGA/SSD/LAN

LED
FPI
COM1
COM2
KM
LAN
VGA
LCD
USB
5V DC Input
PC/104
CF
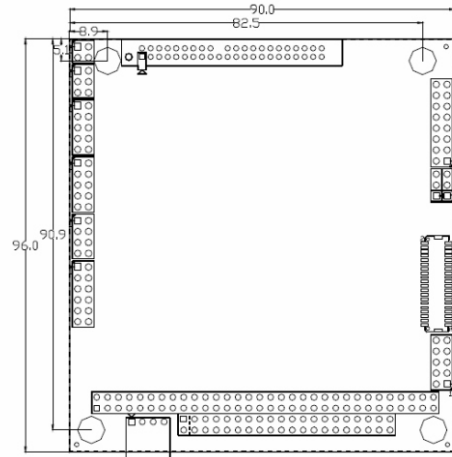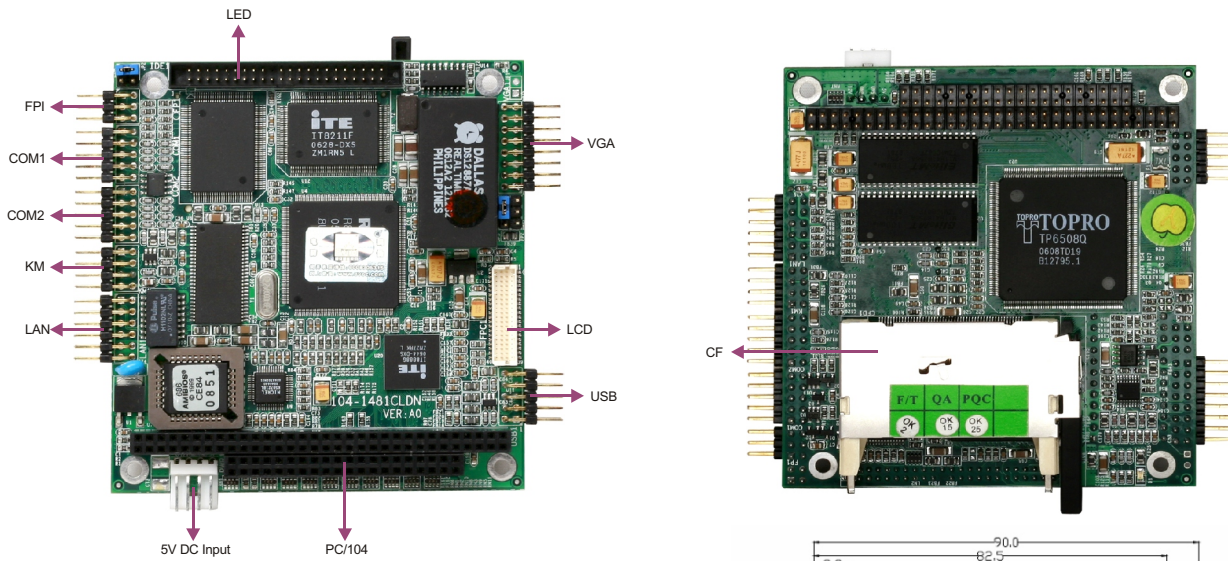
Features

- PC/104 form factor
- Onboard low-power processor at maximum frequency of 133MHz
- Onboard 32MB system memory
- Onboard one 10/100Mbps Ethernet controller
- Supports 2 x USB, 2 x COM, 1 x IDE, 1 x CF socket
- Supports VGA and LCD display

Specifications

System

Processor	Onboard Hero Ⅱ low-power processor at maximum frequency of 133MHz
Chipset	Single chip integration
Memory	Onboard 32MB SDRAM
Watchdog Timer	Super I/O watchdog: Software programmable supports 1~255 sec./min. System reset/interrupt
	CPU watchdog: Software programmable supports 1~7 sec./min. System reset/interrupt
Expansion Interface	ISA bus, standard PC/104 bus interface

Storage

IDE	1 x 44-pin IDE interface, supporting two IDE devices
Onboard Flash	Onboard 8MB flash, can be used as disk A or disk C
CF	1 x CompactFlash socket, mobile storage device in IDE mode, satisfying more expansion requirements

I/O Interface

USB	One onboard USB header providing two extra ports
Serial Port	2 x serial port, COM2 supports RS-232/485
Keyboard/Mouse	1 x PS/2

Onboard Video

Chipset	Onboard TOPRO TP6508 graphics controller
Memory	1MB video memory
Display	Supports VGA and LCD display, and dual-display of VGA+LCD

Ethernet

Chipset	MICREL KS8721BL Ethernet controller
Speed	10/100Mbps
Connector	Connects to Internet through specific transfer cable

Mechanical and Environmental

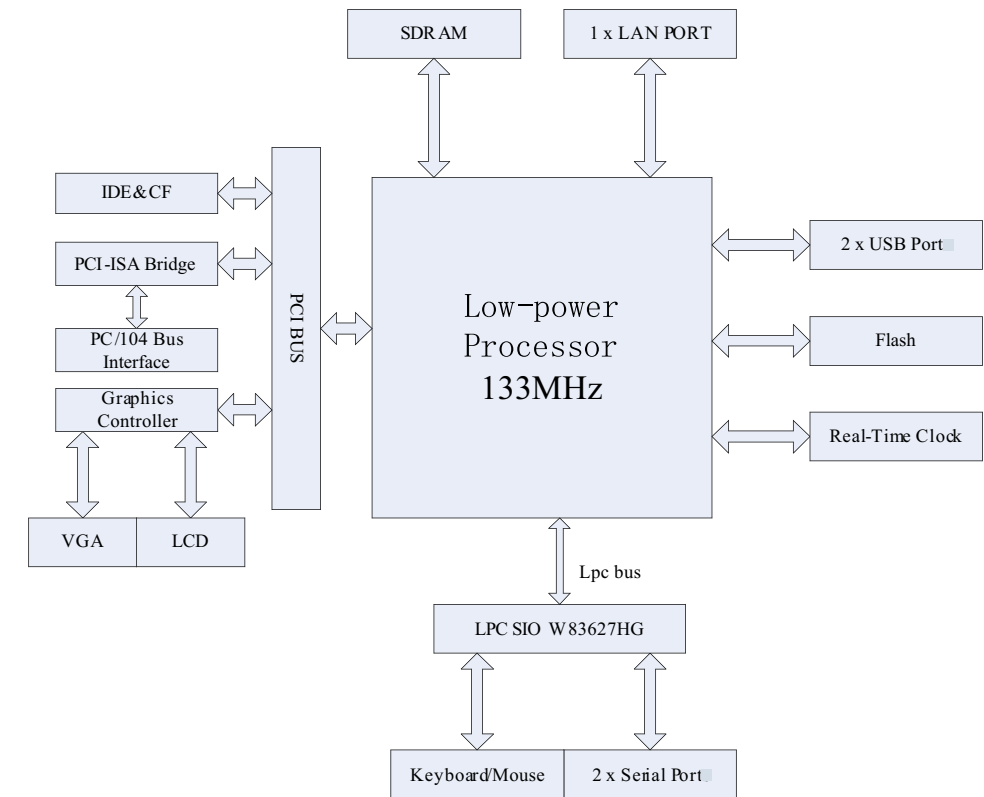|	
Dimensions	96mm x 90mm
Operating Temperature	-40℃~85℃
Operating Humidity	5%-90%,non-condensing

Power

Power Supply	+5V single power supply
Power Consumption	Typical 4.9W (HeroⅡ 133MHz CPU, 32MB memory)

Operating System

Operating System	DOS/WinCE 4.0/Linux/Vxworks

Board Diagram

Available Accessories

Part Number	Name	Description	Qty.
2192-002531	Driver CD/Pressed film/RoHS	104-1481CLDN/VER:A0	1
2330-000041	Jumper/RoHS	2.54mm pitch, blue	2
2331-001991	Socket/RoHS	PC104 2x20-pin 2.54mm pitch female pin length: 12.5mm	1
2331-002011	Socket/RoHS	PC104 2x32-pin 2.54mm pitch female pin length: 12.5mm	1
2331-002251	Pin header/RoHS	2x20-pin, 2.54mm pitch, two sides of same length: 6+6mm	1
2331-002261	Pin header/RoHS	2x32-pin, 2.54mm pitch, two sides of same length: 6+6mm	1
2360-000831	Y-cable for keyboard and mouse/RoHS	PS/2 port connector to 8-pin (2x4), length: 300mm/RoHS	1
2360-000851	VGA cable/RoHS	VGA connector to 16-pin (2x8), length: 220mm/RoHS	1
2360-002571	Dual USB ports with bracket/B4/RoHS	Two USB ports to one 10-pin (2x5), length: 210mm/RoHS	1
2360-008351	Serial port cable/RoHS	DB9 connector to 10-pin (2x5)connector (2.54mm pitch), length: 300mm/RoHS	2
2360-008781	HDD cable/RoHS	40-pin to 44-pin (2.0mm pitch), length: 550mm/RoHS	1
2360-014251	LAN cable/RoHS	RJ-45 connector to 8-pin (2x4) connector (2.54mm pitch), length: 300mm/RoHS	1
2391-002141	Nut/RoHS	M3/GB-T6170-1986/nickel plating	4
2391-004621	Copper hex bolts/RoHS	M3x16-6/CH-M3-16-6-Ni	4
2412-000311	Setup Guide/RoHS	AMI/BIOS Setup Guide (for CORE/7) former/VER: A0	1
2413-000471	User's Manual/Chinese/RoHS	104-1481CLDN/VER: A2	1

Ordering Information

Part Number	Model Number	Description
0030-010571	104-1481CLDN/TC/Conformal coating	Motherboard/RoHS/TC/Conformal coating
0030-004371	104-1481CLDN/Conformal coating	Motherboard/RoHS/Conformal coating
0030-005960	104-1481CLDN	Motherboard
0030-004370	104-1481CLDN/Conformal coating	Motherboard/Conformal coating