eCC104 Tech-Note

Powered by Intel® Atom™ Dual Core D2550 1.86GHz and NM10 PCH, eCC104 has higher graphic and computing performance, but 3 Watts less power consumption compared with previous Atom™ platform! With performance enhance, eCC104 still follow eCCguideline with fanless and cables-less concept housed in a compact chassis, 185mm (W) x 131mm (D) x 54mm (H). The eCC104 offers dual independent display capability through DVI-I and HDMI connectors, Dual Intel® GbE LAN ports, 6 x USB 2.0, 2 x RS232, 2 x RS232/422/485, CFast socket and mini-PCIe socket for optional wireless module connection, either Wi-Fi or 3.5G module.
eCC104's support for +10 to 28VDC input enhances its reliability in different power condition in factory automation or machinery automation. With Dual independent display and super graphic performance, the eCC104 is an idea choice for public information, self-service Kiosk, access control or data acquisition controller…etc.

- OnBoard Intel® Atom™ Dual Core D2550 processor, 1.86GHz
- Intel® NM10 express chipset
- 1 x DVI-I & 1 x HDMI display output
- Dual Intel® 82574L GbE LAN ports; support WoL, teaming and PXE
- 2 x RS232/422/485 and 2 x RS232
- 6 x USB 2.0
- 1 x External CFast socket
- 1 x mini-PCIe with two antenna holes
- Support +10 to 28VDC input; support ATX power mode

Specifications

CPU Support
Onboard Intel® Atom™ Dual Core D2550 processor, 1.86GHz, 1M L2 Cache
Intel® NM10 express chipset

Main Memory
1 x DDR3 SO-DIMM sockets, support up to 4G DDR3 800/1066 SDRAM, un-buffered and non-ECC

I/O Interface-Front
ATX power on/off switch
HDD access/power status LEDs
4 x COM ports (COM2& 3: RS232/422/485)
2 x USB 2.0 port
Audio jack (Line-out and Mic-in)
2 x Antenna holes

I/O Interface-Rear
Dual Intel® 82574L GbE LAN ports; support WoL, teaming and PXE
4 x USB 2.0 port

1 x HDMI
1 x DVI-I (support VGA & DVI-D display via cable)
1 x 2-pin DC input, support +10 to 28VDC input
1 x External screwed type CFast socket

Device
1 x 2.5" HDD driver bay
1 x External CFast socket
1 x mini-PCIe socket (support optional Wi-Fi or 3.5G module)
Power Requirements
Support +10 to 28VDC input
1 x Optional 12V, 60W power adapter

Dimensions
185mm (W) x 131mm (D) x 54mm (H) (7.28" x 5.2" x 2.13")
Construction
Aluminum chassis with fanless design

Environment
Operating temperature: Ambient with air flow: -5°C to 55°C
(according to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14)
Storage temperature: -20°C to 80°C
Relative humidity: 10% to 93% (non-condensing)
Shock protection:
    -HDD: 20G, half sine, 11ms, IEC60068-2-27
    -CFast: 50G, half sine, 11ms, IEC60068-2-27
Vibration protection w/ HDD condition
-Random: 0.5Grms @ 5~500Hz according to IEC60068-2-64
-Sinusoidal: 0.5Grms @ 5~500Hz according to IEC60068-2-6

Certifications
CE approval
FCC Class A
UL

OS Support List
windows XP 32-bit/64-bit
Windows 7 32-bit
WinCE 7.0