

eCC106 Tech-Note

Powered by the latest generation of Intel® Pentium processor N3710 Quad Core, 1.6GHz (formerly codenamed “Braswell”), eCC106 presents intelligent PC-based controller and IOT gateway for factory automation. Up to 4G DDR3L memory, The eCC106 support operating temperature from -5 up to 55 C° with typical DC input 9~30V. The eCC106 has high integration ability with optional mini-PCIe module and 4 x COM ports which makes it a reliable connection with devices in factory automation applications, IOT applications (with optional GbE LAN, Wi-Fi, 3.5G/4G LTE module) and communication applications (with optional GPIO, RS232/422/485). eCC106 is definitely the top choice for M2M intelligent system as a factory automation controller and gateway.



- Onboard Intel® Pentium® processor N3710 Quad Core, 1.6GHz
- 3 x Display output: 1 x HDMI display + 1 x DVI-D + 1 x DP port
- 2 x Intel® I210AT GbE LAN ports; support WoL, teaming and PXE
- 4 x USB 3.0
- 2 x DB9 for RS232/422/485, 2 x DB9 for RS232
- 1 x Optional interface for optional Wi-Fi/3.5G/LTE modules
- Support -5°C~55°C extended operating temperature
- Support 9~30V DC input

Specifications

CPU Support

Onboard Intel® Pentium® Quad Core processor N3710, 2M Cache, 1.6GHz

Main Memory

1 x DDR3L SO-DIMM socket, support DDR3L 1600 4GB RAM max., un-buffered and non-eCC

Display Option

1 x HDMI + 1 x DVI-D + 1 x DP display port

I/O Interface-Front

ATX power on/off switch

1 x Power status/1 x HDD access/1 x battery low/1 x programming/4 x Tx/Rx LEDs

2 x Intel® I210AT GbE LAN ports; support WoL, teaming and PXE

1 x HDMI + 1x DVI-D display output

4 x USB 3.0 (900mA per each)

1 x 3-pin DC input, support +9 to 30VDC input

I/O Interface - Rear

1 x DisplayPort

1 x SIM card holder

1 x External CFast socket

2 x DB9 for RS232/422/485 with auto flow control (COM1 and COM2)

2 x DB9 for RS232 (COM3 and COM4)

2 x Antenna holes for optional Wi-Fi/3.5G antenna

1 x Remote power on/off switch

1 x Optional I/F for optional mini-PCIe Wi-Fi/3.5G/LTE/ NEXCOM's automation module output

I/O Interface - Internal

4 x GPI and 4 x GPO (5V, TTL type)

Storage Device

1 x 2.5" HDD (SATA3.0)

Expansion Slot

1 x mini-PCIe socket for optional Wi-Fi/4G LTE/3.5G modules

Power Requirement

Power input: +9 to 30 Vdc

1 x Optional 24V, 60W power adapter

Dimensions

185mm (W) x 131mm (D) x 54mm (H)
without wall-mount bracket

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: -30°C to 85°C

Relative humidity: 10% to 95% (non-condensing)

Shock protection:

-- HDD: 20G, half sine, 11ms, IEC60068-27

-- CFast: 50G, half sine, 11ms, IEC60068-27

Vibration protection w/ HDD condition:

-- Random: 0.5Grms @ 5~500 Hz, IEC60068-2-64

-- Sinusoidal: 0.5Grms @ 5~500 Hz, IEC60068-2-6

Vibration protection w/ CFast & SSD condition:

-- Random: 2Grms @ 5~500 Hz, IEC60068-2-64

-- Sinusoidal: 2Grms @ 5~500 Hz, IEC60068-2-6

Certifications

CE

FCC Class A

Support OS

Windows 7, 64-bit only

Windows 8.1, 64-bit only

Windows Embedded Standard 7, 64-bit only

Windows 10 IoT Enterprise, 64-bit only

