

Features

- Intel® N2930 / N2807 / E3800 series SoC
- Wide temperature (-40 to 85°C) for E3900 series
- 2 x LAN, 3 x USB, 4 x COM, 1 x I²C
- 1 x CFast
- 1 x half-sized mPCIe, 1 x SATA port or 1 x half-sized mSATA, 0 x SATA port

Specifications

System

CPU Support	Intel® Celeron® N2930: 7.5w, 4C, 2.16GHz Intel® Celeron® N2807: 4.3w, 2C, 2.16GHz Intel® Atom® E3815: 5w, 1C, 1.46GHz Intel® Atom® E3825: 6w, 2C, 1.33GHz Intel® Atom® E3845: 10w, 4C, 1.91GHz
Chipset	Intel® SoC
DRAM	1 x SO-DIMM socket, supporting 1067 DDR3L memory up to 4G (non-ECC) N2930 / E3845 / E3827 support up to 1333 DDR3L
BIOS	AMI BIOS
API/SW/FW	Watchdog API/utility, selectable timer: 1~255 seconds
Power Supply	DC-in 12V only
Power Consumption	+12V : 0.88A (N2930)
Dimension	102 x 145mm (4.02" x 5.71")
Certificate	FCC / CE
OS Support	Windows 7 32/64bit, Windows 8.1 32/64bit, Windows 10 32/64bit, ubuntu 14.04

I/O Ports

SATA Interface	SKU A: 1 x SATA II (3.0Gb/s) SKU B: no SATA port
Serial Port	4 ports COM1: RS232 (rear IO) COM2: RS232/422/485 (pin header), selectable by jumper COM3: RS232 (pin header) w/ RI/5v/12v, selectable by jumper COM4: RS232 (pin header) w/ RI/5v/12v, selectable by jumper
LAN	Dual LAN (2 x RJ45 on rear IO) Supports Wake-on-LAN Controller: 2 x Intel® I210-IT/AT(10/100/1000Mbps)
Audio	Line-in / Line-out / MIC-in (onboard pin header) Codec IC: Realtek ALC888 (high definition codec)
USB	3 ports: 1 x USB 2.0 (internal wafer) 1 x USB 3.0 (rear IO) 1 x USB 2.0 (rear IO)
Expansion Bus	SKU A: 1 x CFast, 1 x mini PCIe SKU B: 1 x CFast, 1 x mSATA (SKU B doesn't support SATA, please refer to ordering information)

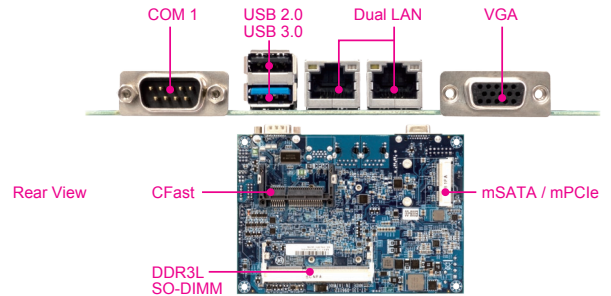
Graphics

VGA	1 x VGA (rear IO), up to 2560x1600@60Hz
LVDS	800 x 600 18bit LVDS (other resolutions are available with customized BOM, up to 1920 x 1200 24bit)

Environment

Operating Temp.	0~60°C for N2807/N2930 SoC SKU -40~85°C for E3825 SoC SKU -30~85°C for E3815 SoC SKU
Storage Temp.	-40~85°C (-40~185°F)
Humidity	Operation humidity 20~90%, storage humidity 20~95%

I/O Panel View



Ordering Information

Order No	Description
IPC-B3P20961-30P	HSF, 3.5" SBC w/ N2930/ Half-sized mPCIe / SATA
IPC-B3P20961-07P	HSF, 3.5" SBC w/ N2807/ Half-sized mPCIe / SATA
IPC-B3P20961-M0P	HSF, 3.5" SBC w/ N2930/ Half-sized mSATA
IPC-B3P20961-M7P	HSF, 3.5" SBC w/ N2807/ Half-sized mSATA
IPC-B3P20961-W1P	HSF, 3.5" SBC w/ E3815/ Half-sized mPCIe / SATA
IPC-B3P20961-W2P	HSF, 3.5" SBC w/ E3825/ Half-sized mPCIe / SATA
IPC-B3P20961-E1P	HSF, 3.5" SBC w/ E3815/ Half-sized mSATA
IPC-B3P20961-E2P	HSF, 3.5" SBC w/ E3825/ Half-sized mSATA