

Features

- Intel® N2930 / E3800 series SoC
- Wide temperature (-40 to 85°C) for E3900 series
- 1 x LAN, 6 x USB, 4 x COM, 8bit DIO
- 1 x DP, 1 x LVDS, 1 x VGA
- 1x half-sized mPCIe

Specifications

System

CPU Support	Intel® Celeron® N2930: 7.5w, 4C, 2.16GHz Intel® Atom® E3815: 5w, 1C, 1.46GHz Intel® Atom® E3825: 6w, 2C, 1.33GHz Intel® Atom® E3845: 10w, 4C, 1.91GHz Intel® Atom® E3826: 7w, 2C, 1.46GHz Intel® Atom® E3827: 8w, 2C, 1.75GHz
Chipset	Intel® SoC
DRAM	1 x SO-DIMM socket, supporting 1067 DDR3L memory up to 4G (non-ECC) N2930/E3845/E3827 supports 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; 0.7A (E3815)
Dimension	102 x 145mm (4.02" x 5.71")
Certificate	FCC / CE
OS Support	Windows 7 32/64bit

I/O Ports

SATA Interface	1 x SATA II port(3.0Gb/s)
Serial Port	4 ports COM1: RS232 (Rear IO) COM2/3/4: RS232 (internal pin header)
LAN	Single port Intel® I210IT (10/100/1000 Mbps) for Atom SKU Intel® I210AT (10/100/1000 Mbps) for Celeron SKU
Audio	Line-in / Line-out / MIC-in (onboard pin header) Codec IC: Realtek ALC888 (high definition codec)
Digital I/O	4 in / 4 out
USB	6 ports: 2 x USB 2.0 (internal wafer) 2 x USB 3.0 (rear IO) 2 x USB 2.0 (rear IO)
Expansion Bus	1 x half-sized mPCIe slot (with PCIe and USB signal)

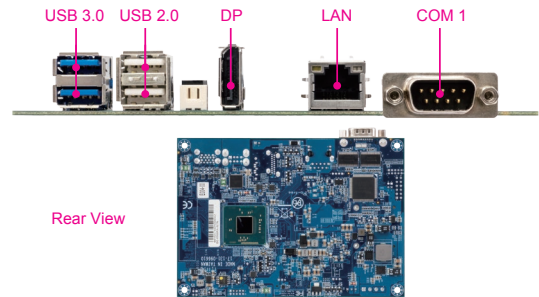
Graphics

VGA	1 x VGA(pin header); up to 2560x1600@60Hz
Display Port	1 x DP(rear IO), resolution: up to 2560x1600@60Hz
LVDS	1 x LVDS (onboard conn), fixed to 800 x 600 18bit Resolution up to 1920x1200 by customized BIOS

Environment

Operating Temp.	-40~85°C (-40~185°F) for Atom® SoC SKU 0~60°C (32~140°F) for Celeron® 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-B3P20966-W5P	HSF, 3.5" SBC w/ E3815 1.46GHz/ VGA/ Audio/ 4COM/ 1LAN (GbE) /wide temp
IPC-B3P20966-30P	HSF, 3.5" SBC w/ N2930 2.16GHz/ VGA/ Audio/ 4COM/ 1LAN (GbE)