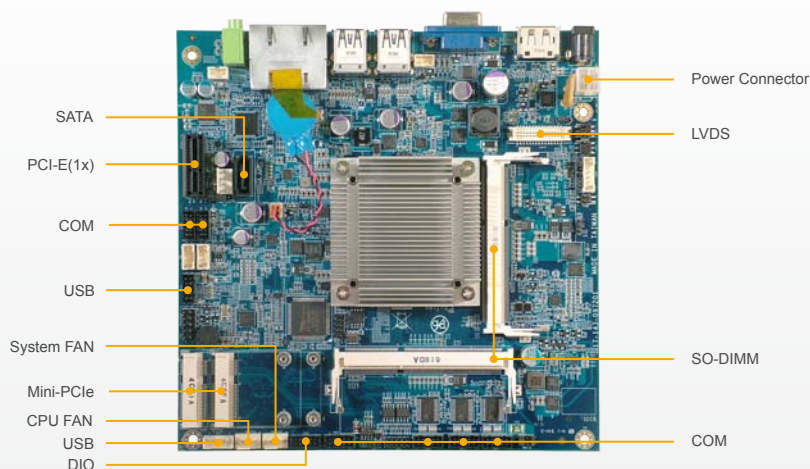


Mini-ITX motherboard Intel® Pentium® and Celeron® N3000 series SoC (Braswell)



Features

- 2 DDR3L SO-DIMM sockets
- 1 VGA, 1 DP, 1 LVDS
- 6 COM, 4 USB 3.0, 3 USB 2.0, 8 DIO, 1 SIM holder
- Dual Gigabit LANs
- 1 SATA, 1 mSATA
- 1 PCIe (x1), 1 mini PCIe

Specifications

System

CPU Support	Onboard Intel® Pentium® and Celeron® SoC (Braswell),
CPU Frequency	Intel® Pentium® N3700 SoC (4C 2M 1.6/2.5 GHz 6W) Intel® Pentium® N3710 SoC (4C 2M 1.6/2.5 GHz 6W) Intel® Celeron® N3060 SoC (2C 2M 1.6/2.16 GHz 6W)
Chipset	Braswell SoC
DRAM	2 DDR3L SO-DIMM 204-pin dual channel 1600/1333 up to 8GB (N3060 SKU supports only 1 DDR3L SO-DIMM)
BIOS	AMI BIOS
API Support	Watchdog: 1~255 seconds timer selectable with reset / NMI I2C, SMBus, DIO, HW monitor, fan control
Power Supply	DC 12V only (rear IO DC-jack and internal 4pin connector)
Power Consumption	+12V: 1.59A (CPU: N3700)
Dimension	170 × 170 mm (6.69" × 6.69")
Certificate	CE / FCC
OS Support	Windows 7 64bit, Windows 8.1 64bit, Windows 10 64bit, ubuntu14.04

I/O Ports

SATA Interface	1 x SATA III (6.0Gb/s), 1 mSATA
Expansion Bus	1 x PCIe (x1), 1 x mini PCIe (half size)
Serial Port	6 x COM: COM1/3/4/5/6 for RS-232, COM2 for RS-232/422/485 selected by jumper (N3060 SKU supports only 2 COM: COM1 and COM2)
Keyboard/ Mouse	2 PS/2 (Internal connector)
FAN	1 x CPU fan (4pin), 1 x system fan (4pin)
LAN	LAN1: Intel® 211/210AT(10/100/1000 Mbps) LAN2: Intel® 211/210AT(10/100/1000 Mbps) Supports wake-on-LAN
Audio	Line-out; High definition audio with Realtek ALC888S
Digital I/O	4 in / 4 out
USB	4 x USB 3.0(rear IO), 3 x USB 2.0(internal) (N3060 supports only 4 USB 3.0 on rear IO)
SIM Holder	1 SIM holder (N3700/N3710 SKU)

Graphics

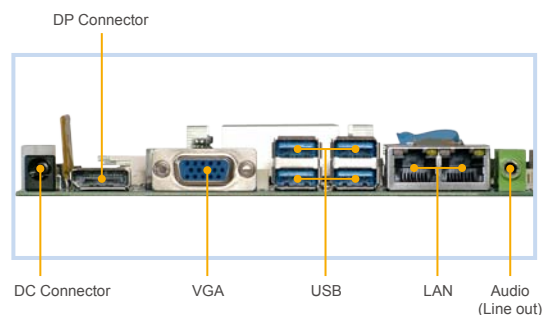
VGA	1 x VGA up to 1920x1200 @60Hz
Display Port	1 x display port up to 2560x1600 @60Hz
LVDS	1 x LVDS, 18/24 bit up to 1920x1200 @60Hz (N3060 SKU supports 1 x display port, 1 x LVDS)

Environment

Operating Temp.	0° ~ 60° C (32° ~ 140° F) passive cooler (default) 0° ~ 50° C , fanless (optional)
Storage Temp.	-40° ~ 85° C (- 40° ~ 185° F)
Humidity	Operation humidity 20 ~ 90%, storage humidity 20 ~ 95%

*All information contained in this document is subject to change without prior notice. Please log on www.protech.com.tw to acquire latest information.

I/O Panel View



Ordering Information

Order No	Description
BM-0972RA-70P	Intel® N3700 w/ DP/ VGA /LVDS/ 2 LAN/ Audio/ 6COM/7USB/SIM
BM-0972RB-71P	Intel® N3710 w/ DP/ VGA /LVDS/ 2 LAN/ Audio/ 6COM/7USB/SIM
BM-0972RB-06P	Intel® N3060 w/ DP/2 LAN/ Audio/ 2COM/ 4USB

Packing List

Part No	Description
27-008-31405081	SATA+SATA power cable 240mm
n/a	Quick guide
n/a	Driver CD

Ordering Accessories

Part No	Description
27-024-29706031	Dual COM port cable w/ bracket
27-006-00006114	USB cable with bracket