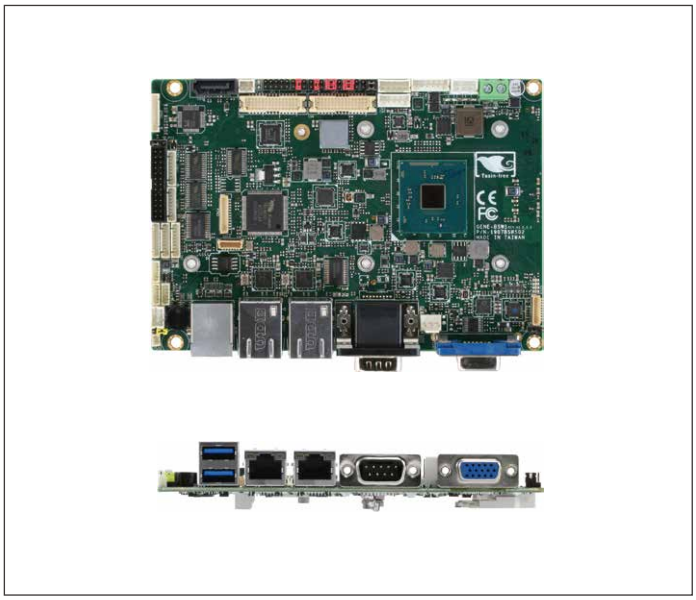
3.5” SubCompact Board with Intel® Pentium & Celeron® N3000 Series Processor SoC



Features

- Onboard Intel® Pentium®/Celeron® N3000 Series Processor SoC
- DDR3L 1600/1066 SODIMM x 1, Up to 8 GB
- Gigabit Ethernet x 2
- Multiple Display in 18/24-bit 2CH LVDS, VGA, HDMI (optional, occupied with LVDS x 1)
- AC97 2.3 Code 2CH Audio
- Mini-Card x 1 (Full-Size), half-size co-layout with mSATA
- mSATA x 1
- USB3.0 x 4, USB2.0 x 1. RS-232 x 4, RS-232/422/485 x 2, Digital I/O 8-bit
- +12V DC in, AT/ATX

Specifications

System	
Form Factor	3.5'' SubCompact Board
CPU	Intel® Braswell M/D SoC Processor
CPU Frequency	TBD
Chipset	Intel® Braswell M/D SoC Processor
Memory Type	DDR3L 1600/1066, SODIMM x 1
Max. Memory Capacity	Up to 8 GB
BIOS	UEFI
Wake on LAN	Yes
Watchdog Timer	255 Levels
Power Requirement	+12V
Power Supply Type	AT/ ATX
Power Consumption (Typical)	TBD
Dimension (L x W)	5.75" x 4" (146mm x 101.7mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 81°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	TBD
Certification	CE/FCC
Display	
VGA/LCD Controller	Braswell M/D SoC
Video Output	Combination in 3 independent display: LVDS x 2 + VGA (HDMI is optional, shared with LVDS2)
Backlight inverter supply	PWM 2 x PWM 5V/12V for LVDS x 2
I/O	
Ethernet	Realtek RTL-8111E, 10/100/1000Base, RJ-45 x2
Audio	High Definition Audio Interface
USB Port	USB3.0 x 4 USB2.0 x 1
Serial Port	RS-232/422/485 x 2, RS-232 x 4
Parallel Port	SPP/EPP/ECP x 1 (Option, share with DIO)
HDD Interface	SATA 3.0 x 1
FDD Interface	—
SSD	—
Expansion Slot	Mini Card x 2 and default is 1. mSATA x 1 (half-size) 2. miniCard x 1(Full-size)
PWM LCD Support	8 Bit
DIO	x 1
TPM	—
Touch	x 1 (USB interface)

Packing List

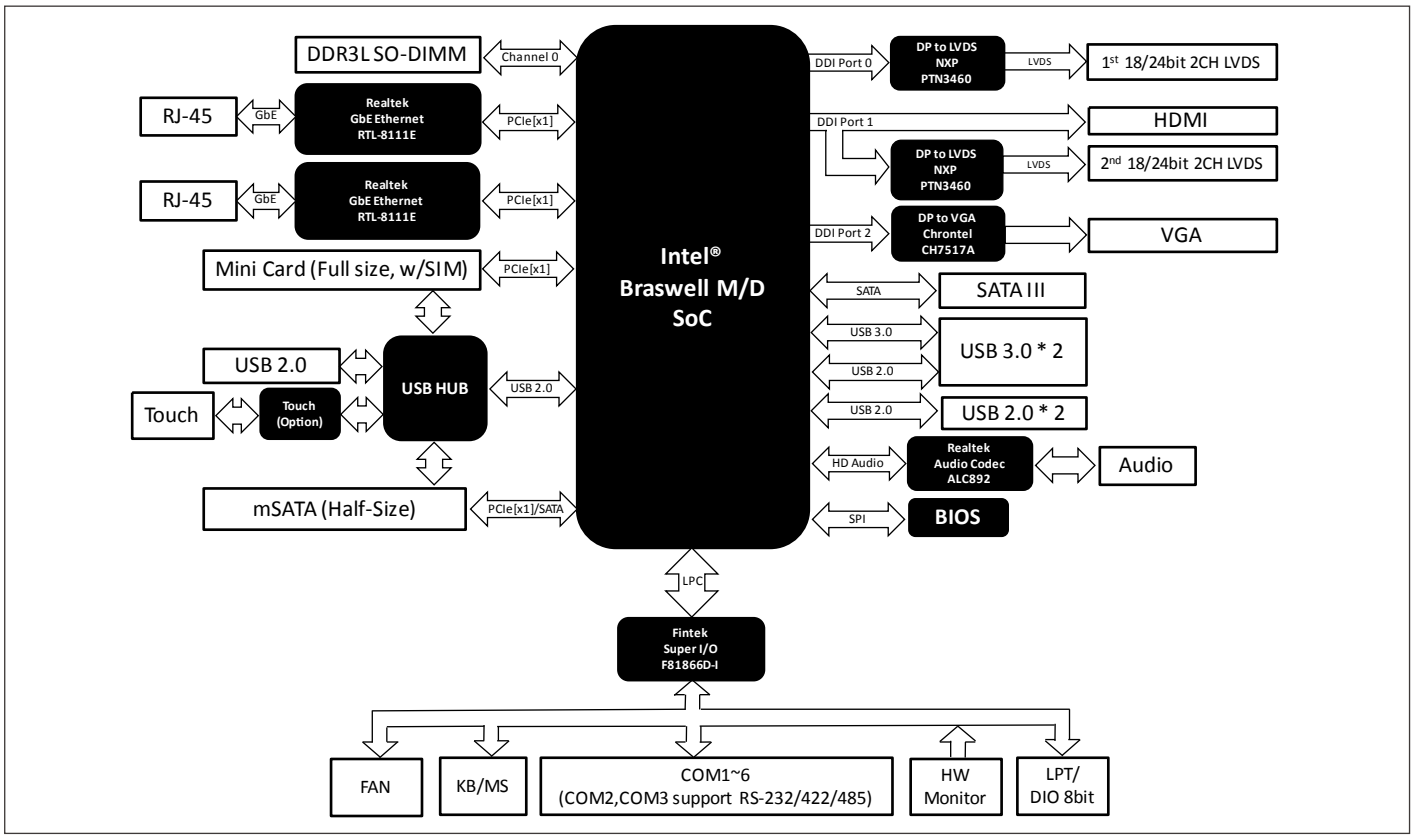
- Product DVD
- GENE-BSW5 with Passive Heatsink

Optional Accessories

Part Number	Description	QTY
1702150155	(TF)Power Cable.15P SATA(F).2P 2.0mm Housing(PH).15cm	1
170220020B	(TF)Power Cable.20P ATX(M).4P 5.08mm Housing(F).+3P 2.5mm Housing (XH).20cm	1
1709070500	(TF)SATA CABLE.7P Pitch 1.27mm.50cm	1
170204010R	(TF)Power Cable.Double 4P 5.08mm Housing(M).10cm	1
1709100254	(TF)PHONE JACK Cable.3P AUDIO JACK.1*10P 1.25mm HOUSING(F).25cm	1
1701090150	(TF)Flat Cable.D-Sub 9(M).9P Housing.9P 1.25mm pitch Housing.15cm	5
1701260200	(TF)Flat Cable.25P D-SUB FEMALE.26P 2.00mm Pitch Housing.20cm	1
1703120130	(TF)LPC cable.12P.to 12P 1.0mm Housing.13cm	1
1700050207	(TF)USB CABLE.1*5P Pitch=1.25mm Housinh.20cm.for PFM-945C	3
1700060152	(TF)Cable.6P 2.0mm Housing.W/O NOSE.6P MDM-6S KB&MS.15cm	1
175011901M	(TF)BATTERY.3V.w/Wire 110mm.MITSUBISHI.Longtrump.CR2032-HAT00(MLF)	1

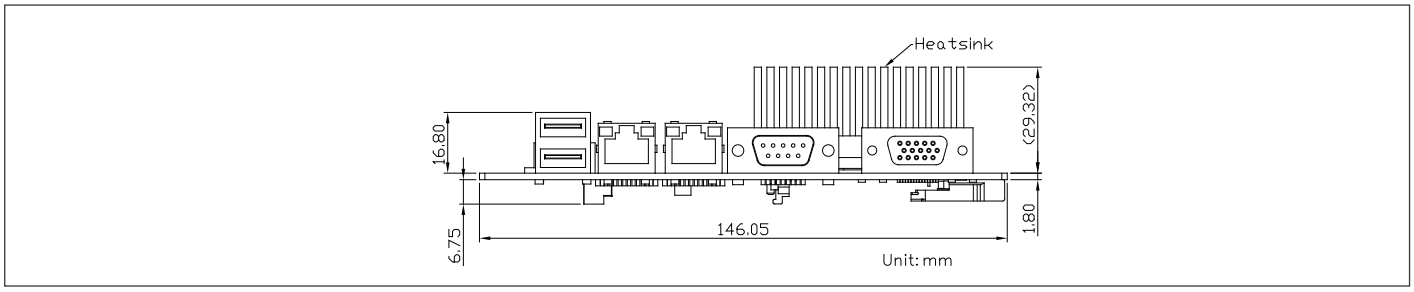
Note: All specifications are subject to change without notice.

Block Diagram



Dimension

Unit: mm



Ordering Information

Part Number	CPU	Fan/Fanless	Display	LVDS	Storage	LAN	USB	RS-232	RS-232/422/485	Expansion Slot	Power	Power Temp	Others	Others
GENE-BSW5-A10-0001	N3150	Fanless	VGA/LVDS/ LVDS2	24bit,2CH	SATA x 1, mSATA x 1 (half-size)	GbE x 2	USB3.0 x 2, USB 2.0 x 3	4	2	miniCard x 1 (Full-size)	12V	0°C ~ 60°C	Touch Controller, SIM, DIO x 8	DIO x 8