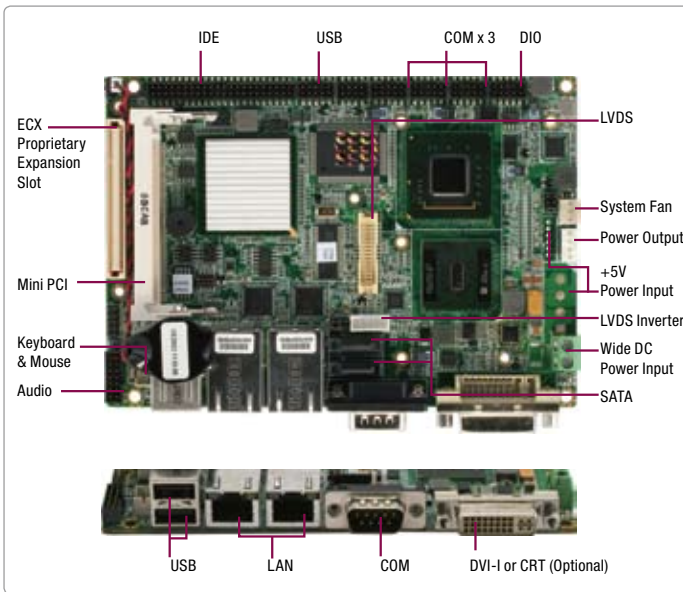


# GENE-9455 Rev. A

3.5" SubCompact Board With Onboard Intel® Atom™ N270 Processor



## Features

- Onboard Intel® Atom™ N270 Processor With 1.6 GHz
- Intel® 945GSE + ICH7M
- SODIMM DDR2 400/533, Max. 2 GB
- Gigabit Ethernet x 2, RJ-45 x 2
- CRT or DVI, 18-bit Dual-channel LVDS LCD
- AC97 2.3 Codec 2CH Audio
- SATA 1.5Gb/s x 2, EIDE x 1 & CompactFlash™ x 1
- USB2.0 x 4, COM x 4, 8-bit Digital I/O
- Mini PCI and ECX Proprietary Expansion
- +8.5V to +19V Wide DC Input Range or +5V Only Operation
- 4/5/8-wire Touch Screen Controller (Optional)

## Specifications

System	
Form Factor	3.5"
Processor	Onboard Intel® Atom™ N270 Processor 1.6 GHz , FSB 533 MHz
System Memory	200 pin DDR2 SODIMM x 1, Max. 2 GB (DDR2 400/533)
Chipset	Intel® 945GSE + ICH7M
I/O Chipset	ITE8781
Ethernet	Intel® 82574L, 10/100/1000Base-TX, RJ-45 x 2
BIOS	Award Plug & Play SPI BIOS - 2 MB Flash
Wake On LAN	Yes
Watchdog Timer	Generates a time-out system reset
H/W Status Monitoring	Supports power supply voltages and temperature monitoring
Expansion Interface	Mini PCI x 1 & ECX Proprietary Expansion x 1
Battery	Lithium battery
Power Requirement	+8.5V to +19V Wide DC Input Range (AT only) or +5V only (AT/ATX)
Power Consumption (Typical)	Intel® Atom™ N270, DDR2 667 2 GB 2.89A@+5V,
Board Size	5.75" (L) x 4" (W) (146mm x 101.6mm)
Gross Weight	0.88 lb (0.4 kg)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	70,000
Display	
Supports CRT/LCD simultaneous/ dual view displays	
Chipset	Intel® 945GSE integrated
Memory	Shared system memory up to 224 MB/ DVMT3.0
Resolutions	Up to 2048 x 1536 for CRT Up to 1024 x 768 for LCD
LCD Interface	Up to 18-bit dual-channel LVDS
DVI (optional)	DVI x 1
I/O	
Storage	EIDE x 1 (UDMA-100 for two devices), SATA 1.5Gb/s x 2, Type 2 CompactFlash™ x 1
Serial Port	RS-232 x 3, RS-232/422/485 (auto flow) x 1
USB	USB2.0 x 4
PS/2 Port	Keyboard x 1, Mouse x 1
Digital I/O	Supports 8-bit (Programmable)
Audio	Line-in, Line-out, Mic-in & CD-in
Touch Screen (optional)	Supports 4/5/8-wire resistive touch screen



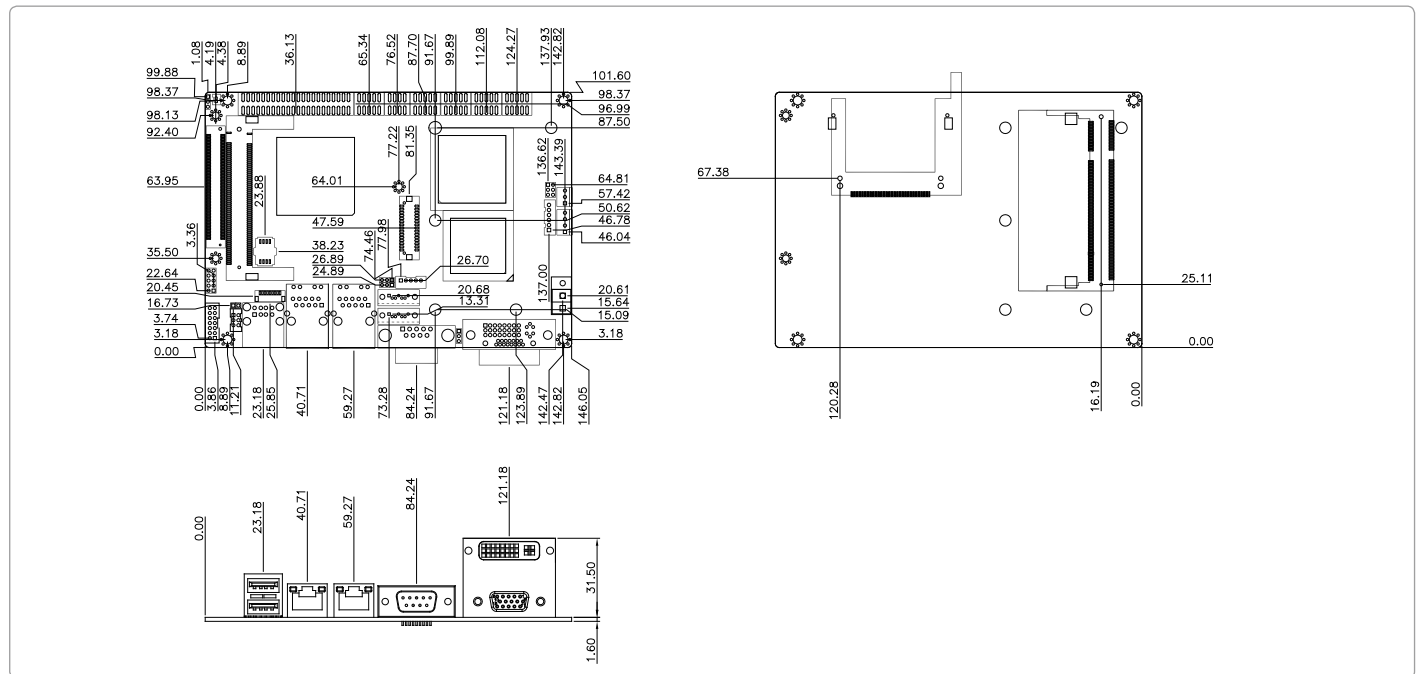
## Packing List

- **1700060157**  
KB/Mouse Cable
- **M169455000 (For Fanless Model Only)**  
SODIMM Heatsink
- **9657666600**  
Jumper Cap
- **1654929900 (For DVI-I Model Only)**  
DVI-I to VGA Adapter
- **Product CD**
- **GENE-9455 Rev. A**

# GENE-9455 Rev. A

## Dimension

Unit: mm



## Ordering Information

Part Number	CPU	Fan/Fanless	Display	Storage	LVDS	Touch	LAN	USB	RS-232	RS-232/422/485	Expansion Slot	Power	Temp
TF-GENE-9455-A11	Intel® Atom™ N270	FAN	DVI + LVDS	18b, 2CH	EIDE x 1, SATA x 2, CompactFlash™ x 1	—	GbE x 2	4	3	1	Mini PCI x 1 ECX Proprietary Expansion x 1	+8.5V ~ 19V DC	0°C ~ 60°C
TF-GENE-9455-A11-01	Intel® Atom™ N270	FAN	DVI + LVDS	18b, 2CH	EIDE x 1, SATA x 2, CompactFlash™ x 1	—	GbE x 2	4	3	1	Mini PCI x 1 ECX Proprietary Expansion x 1	+5V DC	0°C ~ 60°C
TF-GENE-9455-A11-02	Intel® Atom™ N270	FAN	CRT + LVDS	18b, 2CH	EIDE x 1, SATA x 2, CompactFlash™ x 1	1	GbE x 2	4	3	1	Mini PCI x 1 ECX Proprietary Expansion x 1	+8.5V ~ 19V DC	0°C ~ 60°C
TF-GENE-9455-A11-03	Intel® Atom™ N270	FAN	CRT + LVDS	18b, 2CH	EIDE x 1, SATA x 2, CompactFlash™ x 1	1	GbE x 2	4	3	1	Mini PCI x 1 ECX Proprietary Expansion x 1	+5V DC	0°C ~ 60°C
TF-GENE-9455-A11-04	Intel® Atom™ N270	Fanless	DVI + LVDS	18b, 2CH	EIDE x 1, SATA x 2, CompactFlash™ x 1	—	GbE x 2	4	3	1	Mini PCI x 1 ECX Proprietary Expansion x 1	+8.5V ~ 19V DC	0°C ~ 60°C
TF-GENE-9455-A11-05	Intel® Atom™ N270	Fanless	DVI + LVDS	18b, 2CH	EIDE x 1, SATA x 2, CompactFlash™ x 1	—	GbE x 2	4	3	1	Mini PCI x 1 ECX Proprietary Expansion x 1	+5V DC	0°C ~ 60°C
TF-GENE-9455-A11-06	Intel® Atom™ N270	Fanless	CRT + LVDS	18b, 2CH	EIDE x 1, SATA x 2, CompactFlash™ x 1	1	GbE x 2	4	3	1	Mini PCI x 1 ECX Proprietary Expansion x 1	+8.5V ~ 19V DC	0°C ~ 60°C
TF-GENE-9455-A11-07	Intel® Atom™ N270	Fanless	CRT + LVDS	18b, 2CH	EIDE x 1, SATA x 2, CompactFlash™ x 1	1	GbE x 2	4	3	1	Mini PCI x 1 ECX Proprietary Expansion x 1	+5V DC	0°C ~ 60°C
TF-GENE-9455-A11-08	Intel® Atom™ N270	FAN	CRT + LVDS	18b, 2CH	EIDE x 1, SATA x 2, CompactFlash™ x 1	—	GbE x 1	4	3	1	Mini PCI x 1	+8.5V ~ 19V DC	0°C ~ 60°C
TF-GENE-9455-A11-09	Intel® Atom™ N270	FAN	CRT + LVDS	18b, 2CH	EIDE x 1, SATA x 2, CompactFlash™ x 1	—	GbE x 1	4	3	1	Mini PCI x 1	+5V DC	0°C ~ 60°C
TF-GENE-9455-A11-10	Intel® Atom™ N270	Fanless	CRT + LVDS	18b, 2CH	EIDE x 1, SATA x 2, CompactFlash™ x 1	—	GbE x 1	4	3	1	Mini PCI x 1	+8.5V ~ 19V DC	0°C ~ 60°C
TF-GENE-9455-A11-11	Intel® Atom™ N270	Fanless	CRT + LVDS	18b, 2CH	EIDE x 1, SATA x 2, CompactFlash™ x 1	—	GbE x 1	4	3	1	Mini PCI x 1	+5V DC	0°C ~ 60°C

## Optional Accessories

- **1709100208**  
USB Cable, Length 20cm
- **1701100206**  
COM Port Cable, Length 20cm
- **1709140181**  
Audio Cable, Length 18cm
- **1709070500**  
SATA Cable, Length 50cm
- **1702151200**  
SATA Power Cable, Length 12cm
- **TF-PER-T061-A10**  
ECX Expansion Board, LVDS, 2 SATA, 4 COM, 1 USB, Rev. A1.0
- **TF-PER-T099-A10**  
ECX Extension Board, LVDS, PCI-Express, 2 COM, Rev. A1.0
- **TF-PER-T099-A10-01**  
ECX Extension Board, LVDS, Mini Card, 2 COM, Rev. A1.0