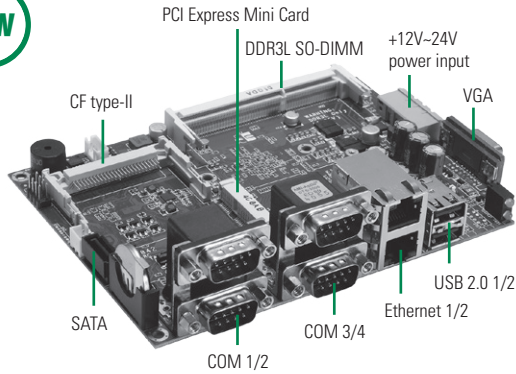


# SBC87842

Intel® Atom™ Processor E3827/Celeron® N2807 3.5" Embedded SBC with VGA and 2 Gigabit Ethernet



## System

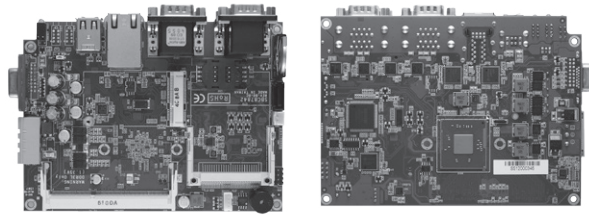
CPU	Intel® Atom™ processor E3827 1.75 GHz/Celeron® N2807 1.58 GHz dual core onboard
System Memory	1 x 204-pin DDR3L-1333 SO-DIMM max. up to 8 GB
Chipset	SoC integrated
BIOS	AMI
SSD	1 x CF 1 x mSATA (optional)
Watchdog Timer	255 levels, 1 ~ 255 sec.
Expansion Interface	1 x Full-Size Mini PCI Express Mini Card
Battery Lithium	Lithium 3V/220mAH
Power Input	1 x 3-pin phoenix connector +12V ~24V DC-in only AT mode
Size	143 x 104 mm
Board Thickness	1.6 mm
Temperature	Referring to ordering information
Relative Humidity	10% ~ 95% relative humidity, non-condensing

## I/O

MIO	4 x RS-232/422/485
SATA	1 x SATA-300
Hardware Monitoring	Detect CPU/system temperature and voltage
Ethernet	2 x 10/100/1000 Mbps supports Wake-on-LAN, PXE Boot ROM with Intel® i211AT or i210IT
Audio	N/A
USB	2 x USB 2.0
SMBus	System Management Bus for advanced monitoring/control
Digital I/O	N/A

## Features

- Reverse layout design for fast system integration
- Intel® Atom™ processor E3827 (1.75GHz)/Celeron® N2807 (1.58GHz)
- 1 DDR3 SO-DIMM supports max. up to 8 GB memory capacity
- 2 Gigabit Ethernet ports and 2 USB 2.0 ports
- 4 COM ports (RS-232/422/485)
- Dimensions: 143 x 104 mm
- Wide temperature operation of -40°C ~ +80°C
- Supports +12V ~24VDC wide range power input



▲ Top view

▲ Rear view

## Display

Chipset	Intel® HD Graphics
Memory Size	Share system memory
Display Interface	1 x VGA

## Packing List

### Standard

Quick installation guide, user's manual/utility CD

## Ordering Information

### Standard

SBC87842VGG-E3827 w/ET (P/N: E387842110)	3.5" embedded SBC with Intel® Atom™ processor E3827 (1.75 GHz, 1MB Cache, 8W), 2 Gigabit LANs, VGA and -40°C ~ +80°C
SBC87842VGG-N2807 (P/N: E387842109)	3.5" embedded SBC with Intel® Celeron® processor N2807 (1.58-2.16 GHz, 1MB Cache, 4.3W), 2 Gigabit LANs, VGA and -20°C ~ +70°C

### Optional

50787842200E	Heatspreader
594IC038200E	SATA+SATA power cable L=120mm

SBC Services and Solutions

Systems on Modules

Embedded SBCs >EPIC

Embedded SBCs >3.5" Capa

Embedded SBCs >Nano-ITX

Embedded SBCs >Pico-ITX

Embedded SBCs >PC/104

Industrial Motherboards

Slot CPU Cards

ARM Embedded Boards

Accessories

Appendix