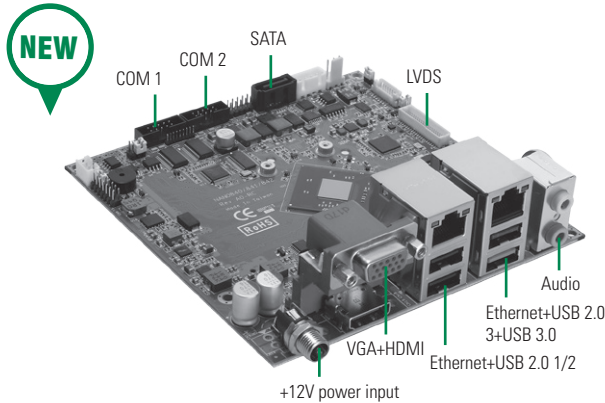


NANO842

Intel® Celeron® Processor J1900/N2807
Nano-TX SBC with LVDS/VGA/HDMI,
Dual LANs and Audio



System

| | |
|---------------------|---|
| CPU | Intel® Celeron® Processor J1900, N2807 |
| System Memory | 1 x 204-pin DDR3L-1066/1333 SO-DIMM max. up to 8 GB |
| Chipset | SoC integrated |
| BIOS | AMI |
| SSD | N/A |
| Watchdog Timer | 255 levels, 1~255 sec. |
| Expansion Interface | 1 x Full-size PCI Express Mini Card with mSATA 1 x Half-size PCI Express Mini Card |
| Battery Lithium | Lithium 3V/220mAH |
| Power Input | DC power jackconnector +12V DC-in AT Auto Power On function supported |
| Power Requirements | Intel® Celeron® J1900 @ 2 GHz 8 GB DDR3L Max. RMS: +12V @0.9A Intel® Celeron® N2807 @ 1.58 GHz 8 GB DDR3L Max. RMS: +12V @0.7A |
| Size | 120 x 120 mm |
| Board Thickness | 1.6 mm |
| Temperature | -20°C ~ +70°C (-4°F ~ 158°F), operation |
| Relative Humidity | 10% ~ 95% relative humidity, non-condensing |

Features

- Intel® Celeron® Processor J1900/N2807 (Bay Trail SoC)
- 1 DDR3L SO-DIMM supports up to 8GB memory capacity
- 5 USB 2.0 ports and 1 USB 3.0 port
- 2 COM ports
- 2 PCI Express Mini Cards

Display

| | |
|-------------------|--|
| Chipset | Intel® integrated Gfx graphic engine |
| Memory Size | Share System memory |
| Display Interface | 1 x VGA 1 x LVDS; 18/24-bit single/dual channel 1 x HDMI |

Packing List

| Standard | | |
|--|--|-----|
| Quick installation guide, User's Manual/Utility CD and cable | | |
| Cable | | |
| Part Number | Description | Qty |
| 59382620000E | 1 x COM cable w/ bracket P=2.0mm L=300mm | 1 |
| Optional | | |
| 50966124030E | ADAPTER 12V60W FSP060-DIBAN2 W/SCREW | |

Ordering Information

| Standard | | |
|---|---|--|
| NANO842VHGGG-J1900 (P/N: E38K842100) | Nano-ITX SBC with Intel® Celeron® processor J1900 (2 GHz-2.4 GHz, 2 MB Cache, 10W), VGA/LVDS/HDMI, 2 Gigabit LANs, and audio | |
| NANO842VHGGG-N2807 (P/N: E38K842101) | Nano-ITX SBC with Intel® Celeron® processor N2807 (1.58 GHz-2.16 GHz, 1 MB Cache, 4.3W), VGA/LVDS/HDMI, 2 Gigabit LANs, and audio | |

I/O

| | |
|---------------------|---|
| MIO | 1 x RS-232/422/485; with +5V/+12V powered 1 x RS-232 |
| SATA | 1 x SATA-300 |
| Hardware Monitoring | Detect CPU/system temperature and voltage |
| Ethernet | 2 ports 10/100/1000 Mbps supports Wake-on-LAN, PXE Boot ROM with Intel® i211AT |
| Audio | HD Codec audio as MIC-in/Line-out with Realtek ALC662 |
| USB | 5 x USB 2.0 1 x USB 3.0 |
| SMBus | System Management Bus for advanced monitoring/control |
| Digital I/O | 8 channels IN/OUT programmed |
| TPM | ST ST33TPM12LPC with TPM 1.2 compliant |

Архангельск (8182)63-90-72
Астана +7(7172)727-132
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Казань (843)206-01-48

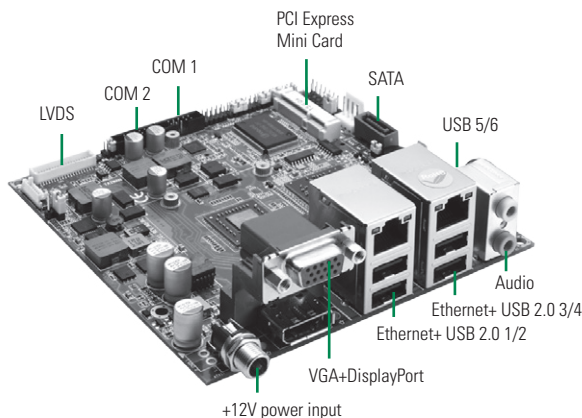
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41

Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78

Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

NANO100

AMD G-Series APU Nano-ITX SBC with AMD A50M FCH, LVDS/DisplayPort/VGA, Dual LANs and Audio



System

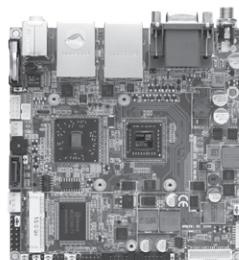
| | |
|-----------------------|---|
| CPU | AMD G-Series APU T56N 1.65 GHz dual core onboard |
| System Memory | 1 x 204-pin SO-DIMM supports DDR3-1333 max. up to 4 GB |
| Chipset | AMD A50M FCH |
| BIOS | AMI UEFI BIOS |
| SSD | 1 x CFast™ |
| Watchdog Timer | 255 levels, 1~255 sec. |
| Expansion Interface | 1 x PCI Express Mini Card V1.2 |
| Battery | Lithium 3V/220mAH |
| Power Input | DC power jack connector +12V DC-in only AT Auto Power ON function supported |
| Power Requirement | AMD G-Series APU T56N @1.65 GHz, 1 GB DDR3 Max. RMS: +12V @ 1.65A |
| Size | 120 x 120mm |
| Board Thickness | 1.6 mm |
| Operating Temperature | 0°C ~ +60°C (32°F ~ 140°F), operation |
| Relative Humidity | 10% ~ 95% relative humidity, non-condensing |

I/O

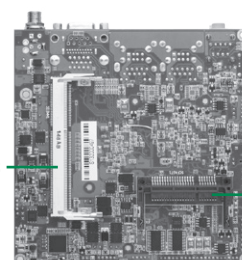
| | |
|---------------------|--|
| MIO | 1 x RS-232/422/485 (COM 1); with +5V/+12V powered 1 x RS-232 (COM 2); with +5V/+12V powered |
| SATA | 1 x SATA-600 |
| Hardware Monitoring | Detect CPU/system temperature, voltage and fan speed |
| Ethernet | 2 ports as 10/100/1000Mbps support Wake-on-LAN, RPL/PXE Boot ROM with Realtek RTL8111E |
| Audio | HD Codec audio as MIC-in/Line-out with Realtek ALC662 |
| USB | 6 x USB 2.0 |
| SMBus | System Management Bus for advanced monitoring/control |
| Digital I/O | 8 channels IN/OUT programmable |

Features

- AMD G-Series APU T56N (1.65 GHz)
- 1 DDR3 SO-DIMM supports up to 4 GB memory capacity
- 6 USB 2.0 ports
- Supports CFast™, PCI Express Mini Card
- DirectX 11 supported
- Display: LVDS/DisplayPort/VGA



▲ Top view



▲ Rear view



▲ Internal power connector (Optional)

Display

| | |
|-------------------|---|
| Chipset | AMD G-Series APU integrated graphic engine T56N-Radeon™ HD6320 |
| Memory Size | Max. up to 2 GB in 4 GB DDR3 module |
| Display Interface | 1 x VGA 1 x DisplayPort 1 x LVDS; 18/24-bit single/dual channel |

Packing List

Standard

Quick installation guide, user's manual/utility CD, cable

Cable

| Part Number | Description | Qty |
|--------------|---|-----|
| 59382620000E | 1 x COM cable w/ bracket P=2.0 mm, L=300 mm | 1 |

Optional

| | | |
|--------------|---|--|
| 59382631000E | 2 x USB 2.0 wafer cable w/ bracket 180 mm | |
| 59070213000E | DisplayPort to VGA cable, L=100 mm | |
| 59040131000E | DisplayPort to DVI cable, L=220 mm | |
| 59050203000E | DisplayPort to HDMI cable, L=185 mm | |
| 59091501000E | DisplayPort to DisplayPort cable, L=1500 mm | |

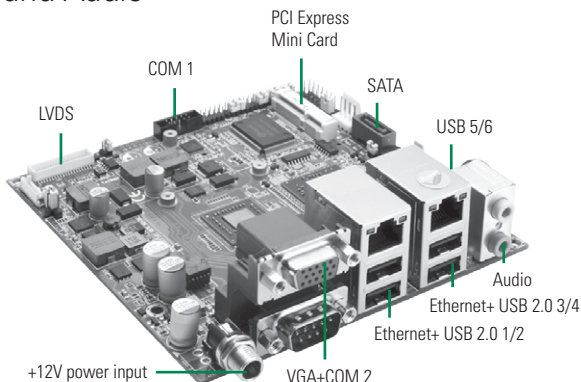
Ordering Information

Standard

| | |
|--|--|
| NANO100VPGGA-T56N (P/N: E38K100100) | Nano-ITX SBC with AMD G-Series APU T56N 1.65 GHz, A50M FCH, VGA/DisplayPort/ LVDS, 2 GbE LAN, 2 COM, 6 USB, CFast™ and audio |
|--|--|

NANO101

AMD G-Series APU Nano-ITX SBC with AMD A50M FCH, LVDS/VGA, Dual LANs and Audio



System

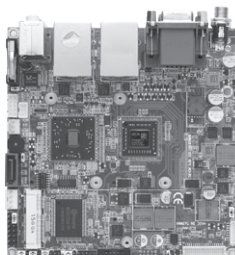
| | |
|-----------------------|--|
| CPU | AMD G-Series APU T40R 1.0 GHz single core or T40E 1.0 GHz dual core onboard |
| System Memory | 1 x 204-pin SO-DIMM supports DDR3-1066 max. up to 4 GB |
| Chipset | AMD A50M FCH |
| BIOS | AMI UEFI BIOS |
| SSD | 1 x CFast™ |
| Watchdog Timer | 255 levels, 1~255 sec. |
| Expansion Interface | 1 x PCI Express Mini Card V1.2 |
| Battery | Lithium 3V/220mAh |
| Power Input | DC power jack connector +12V DC-in only AT Auto Power ON function supported |
| Power Requirement | AMD G-Series APU T40E @1.0 GHz, 1 GB DDR3 Max. RMS: +12V @ 1.11A AMD G-Series APU T40R @1.0 GHz, 1 GB DDR3 Max. RMS: +12V @ 1.06A |
| Size | 120 x 120 mm |
| Board Thickness | 1.6 mm |
| Operating Temperature | 0°C ~ +60°C (32°F ~ 140°F), operation |
| Relative Humidity | 10% ~ 95% relative humidity, non-condensing |

I/O

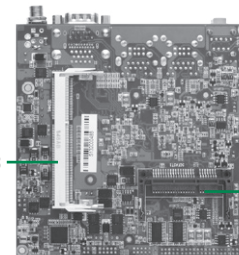
| | |
|---------------------|--|
| MIO | 1 x RS-232/422/485 (COM 1); with +5V/+12V powered 1 x RS-232 (COM 2); with +5V/+12V powered |
| SATA | 1 x SATA-600 |
| Hardware Monitoring | Detect CPU/system temperature and voltage |
| Ethernet | 2 ports as 10/100/1000 Mbps support Wake-on-LAN, RPL/PXE Boot ROM with Realtek RTL8111E |
| Audio | HD Codec audio as MIC-in/Line-out with Realtek ALC662 |
| USB | 6 x USB 2.0 |
| SMBus | System Management Bus for advanced monitoring/control |
| Digital I/O | 8 channels IN/OUT programmable |

Features

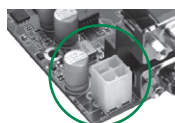
- AMD G-Series APU T40R (1.0 GHz)/ T40E (1.0 GHz)
- 1 DDR3 SO-DIMM supports up to 4 GB memory capacity
- 6 USB 2.0 ports
- Supports CFast™, PCI Express Mini Card
- DirectX 11 supported



▲ Top view



▲ Rear view



▲ Internal power connector (Optional)

Display

| | |
|-------------------|---|
| Chipset | AMD G-Series APU integrated graphic engine T40E/ T40R-Radeon™ HD6250 |
| Memory Size | Max. up to 2 GB in 4 GB DDR3 module |
| Display Interface | 1 x VGA 1 x LVDS; 18/24-bit single/dual channel |

Packing List

Standard

Quick installation guide, user's manual/utility CD, cable

Cable

| Part Number | Description | Qty |
|--------------|---|-----|
| 59382620000E | 1 x COM cable w/ bracket P=2.0 mm, L=300 mm | 1 |

Optional

| | | |
|--------------|---|--|
| 59382631000E | 2 x USB 2.0 wafer cable w/ bracket 180 mm | |
|--------------|---|--|

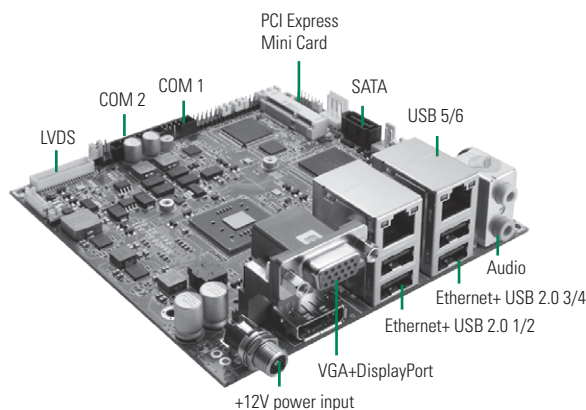
Ordering Information

Standard

| | |
|------------------------------------|--|
| NANO101VGGA-T40R (P/N: E38K101100) | Nano-ITX SBC with AMD G-Series APU T40R 1.0 GHz, A50M FCH, VGA/LVDS, 2 GbE LAN, 2 COM, 6 USB, CFast and audio |
| NANO101VGGA-T40E (P/N: E38K101101) | Nano-ITX SBC with AMD G-Series APU T40E 1.0 GHz, A50M FCH, VGA/LVDS, 2 GbE LAN, 2 COM, 6 USB, CFast™ and audio |

NANO830

Intel® Atom™ D2550 Nano-ITX SBC with Intel® NM10, LVDS/DisplayPort/VGA, Dual LANs and Audio



System

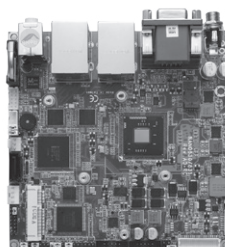
| | |
|-----------------------|---|
| CPU | Intel® Atom™ processor D2550 1.86 GHz dual core onboard |
| System Memory | 1 x 204-pin SO-DIMM supports DDR3-1066 max. up to 4 GB |
| Chipset | Intel® NM10 |
| BIOS | AMI UEFI BIOS |
| SSD | 1 x CFast™ |
| Watchdog Timer | 255 levels, 1~255 sec. |
| Expansion Interface | 1 x PCI Express Mini Card V1.2 |
| Battery | Lithium 3V/220mAH |
| Power Input | DC power jack connector +12V DC-in only AT Auto Power ON function supported |
| Power Requirement | Intel® Atom™ D2550 @1.86 GHz, 1 GB DDR3 Max. RMS: +12V @ 1.25A |
| Size | 120 x 120 mm |
| Board Thickness | 1.6 mm |
| Operating Temperature | -20° ~ +70°C (-4°F ~ +158°F), operation |
| Operation Humidity | 10% ~ 95% relative humidity, non-condensing |

I/O

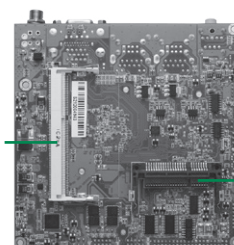
| | |
|---------------------|--|
| MIO | 1 x RS-232/422/485 (COM 1); with +5V/+12V powered 1 x RS-232 (COM 2); with +5V/+12V powered |
| SATA | 1 x SATA-300 |
| Hardware Monitoring | Detect CPU/system temperature, voltage and fan speed |
| Ethernet | 2 ports as 10/100/1000 Mbps support Wake-on-LAN, PXE Boot ROM with Intel® 82583V |
| Audio | HD Codec audio as MIC-in/Line-out with Realtek ALC662 |
| USB | 6 x USB 2.0 |
| SMBus | System Management Bus for advanced monitoring/control |
| Digital I/O | 8 channels IN/OUT programmable |
| TPM | Infineon SLB9635 with TPM 1.2 compliant |

Features

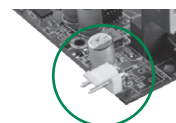
- Intel® Atom™ processor D2550 (1.86 GHz)
- 1 DDR3 SO-DIMM supports up to 4 GB memory capacity
- 6 USB 2.0 ports
- 2 COM ports
- Supports CFast™, PCI Express Mini Card
- Display: LVDS/DisplayPort/VGA



▲ Top view



▲ Rear view



▲ Internal power connector (Optional)

Display

| | |
|-------------------|---|
| Chipset | Intel® GMA 3650 graphics core |
| Memory Size | Share system memory |
| Display Interface | 1 x VGA 1 x DisplayPort 1 x LVDS; 18/24-bit single/dual channel |

Packing List

Standard

Quick installation guide, user's manual/utility CD, cable

Cable

| Part Number | Description | Qty |
|--------------|---|-----|
| 59382620000E | 1 x COM cable w/ bracket P=2.0 mm, L=300 mm | 1 |

Optional

| | |
|--------------|---|
| 59382631000E | 2 x USB 2.0 wafer cable w/ bracket 180 mm |
| 59070213000E | DisplayPort to VGA cable, L=100 mm |
| 59040131000E | DisplayPort to DVI cable, L=220 mm |
| 59050203000E | DisplayPort to HDMI cable, L=185 mm |
| 59091501000E | DisplayPort to DisplayPort cable, L=1500 mm |

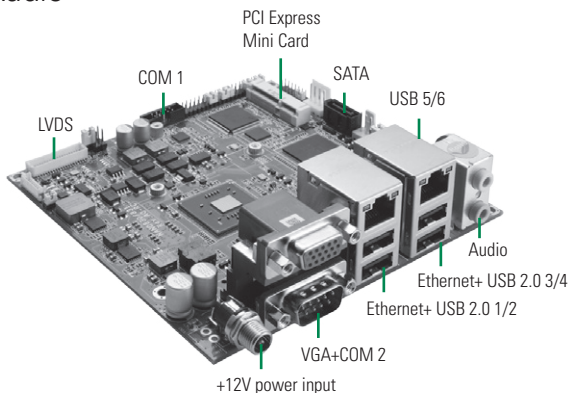
Ordering Information

Standard

| | |
|---|--|
| NANO830VPGA-D2550 (heatsink fan included) (P/N: E38K830100) | Nano-ITX SBC with Intel® Atom™ processor D2550 1.86 GHz, VGA/DisplayPort/LVDS, 2 GbE LAN, 2 COM, 6 USB, CFast™ and audio |
|---|--|

NANO831

Intel® Atom™ N2600 Nano-ITX SBC with Intel® NM10, LVDS/VGA, Dual LANs and Audio



System

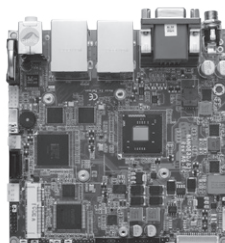
| | |
|-----------------------|---|
| CPU | Intel® Atom™ processor N2600 1.6 GHz dual core onboard |
| System Memory | 1 x 204-pin SO-DIMM supports DDR3-800 max. up to 2 GB |
| Chipset | Intel® NM10 |
| BIOS | AMI UEFI BIOS |
| SSD | 1 x CFast™ |
| Watchdog Timer | 255 levels, 1-255 sec. |
| Expansion Interface | 1 x PCI Express Mini Card V1.2 |
| Battery | Lithium 3V/220mAH |
| Power Input | DC power jack connector +12V DC-in only AT Auto Power ON function supported |
| Power Requirement | Intel® Atom™ N2600 @1.6 GHz, 1 GB DDR3 Max. RMS: +12V @ 0.995A |
| Size | 120 x 120 mm |
| Board Thickness | 1.6 mm |
| Operating Temperature | 0°C ~ +60°C (32°F ~ 140°F), operation |
| Operation Humidity | 10% ~ 95% relative humidity, non-condensing |

I/O

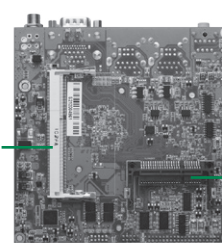
| | |
|---------------------|--|
| MIO | 1 x RS-232/422/485 (COM 1); with +5V/+12V powered 1 x RS-232 (COM 2); with +5V/+12V powered |
| SATA | 1 x SATA-300 |
| Hardware Monitoring | Detect CPU/system temperature, voltage and fan speed |
| Ethernet | 2 ports as 10/100/1000 Mbps support Wake-on-LAN, PXE Boot ROM with Intel® 82583V |
| Audio | HD Codec audio as MIC-in/Line-out with Realtek ALC662 |
| USB | 6 x USB 2.0 |
| SMBus | System Management Bus for advanced monitoring/control |
| Digital I/O | 8 channels IN/OUT programmable |
| TPM | Infineon SLB9635 with TPM 1.2 compliant |

Features

- Intel® Atom™ processor N2600 (1.6 GHz)
- 1 DDR3 SO-DIMM supports up to 2 GB memory capacity
- 6 USB 2.0 ports
- 2 COM ports
- Supports CFast™
- PCI Express Mini Card supported



▲ Top view



▲ Rear view



▲ Internal power connector (Optional)

Display

| | |
|-------------------|--|
| Chipset | Intel® GMA 3600 graphics core |
| Memory Size | Share system memory |
| Display Interface | 1 x VGA 1 x LVDS; 18/24-bit single/dual channel |

Packing List

Standard

Quick installation guide, user's manual/utility CD, cable

Cable

| Part Number | Description | Qty |
|--------------|---|-----|
| 59382620000E | 1 x COM cable w/ bracket P=2.0 mm, L=300 mm | 1 |

Optional

| | | |
|--------------|---|--|
| 59382631000E | 2 x USB 2.0 wafer cable w/ bracket 180 mm | |
|--------------|---|--|

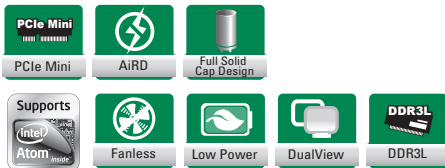
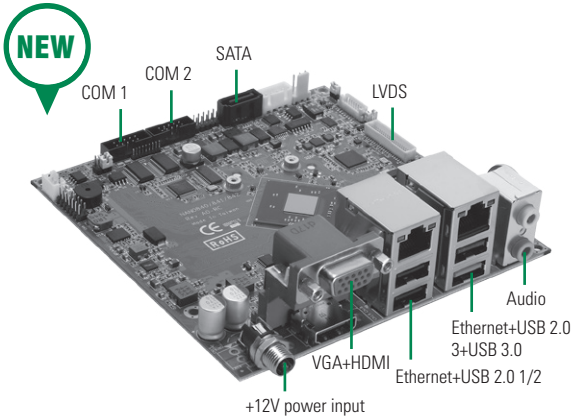
Ordering Information

Standard

| | |
|-------------------------------------|---|
| NANO831VGGA-N2600 (P/N: E38K831100) | Nano-ITX SBC with Intel® Atom™ processor N2600, VGA/LVDS, 2 GbE LAN, 2 COM, 6 USB, CFast™ and audio |
|-------------------------------------|---|

NANO840

Intel® Atom™ Processor E3845/E3827
Nano-ITX SBC with LVDS/VGA/HDMI,
Dual LANs and Audio



System

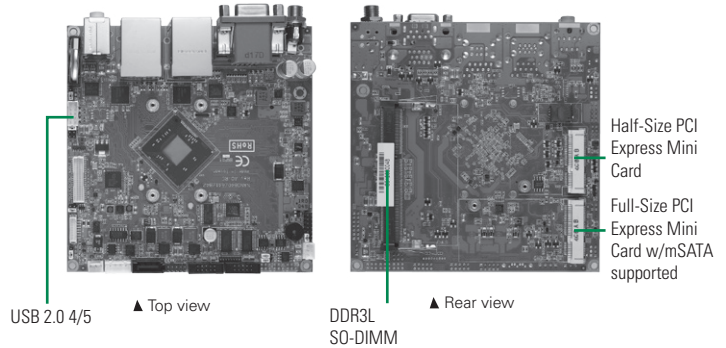
| | |
|---------------------|--|
| CPU | Intel® Atom™ processor E3845 quad core, E3827 dual core onboard |
| System Memory | 1 x 204-pin DDR3L-1066/1333 SO-DIMM max. up to 8 GB |
| Chipset | SoC integrated |
| BIOS | AMI |
| SSD | N/A |
| Watchdog Timer | 255 levels, 1-255 sec. |
| Expansion Interface | 1 x Full-size PCI Express Mini Card with mSATA 1 x Half-size PCI Express Mini Card |
| Battery Lithium | Lithium 3V/220mAh |
| Power Input | DC power jack connector +12V DC-in AT Auto Power On function supported |
| Power Requirements | Intel® Atom™ E3845 @1.91 GHz 8 GB DDR3L Max. RMS: +12V @ 0.9A Intel® Atom™ E3827 @1.75 GHz 8 GB DDR3L Max. RMS: +12V @ 0.8A |
| Size | 120 x 120 mm |
| Board Thickness | 1.6 mm |
| Temperature | -40°C ~ +80°C (-40°F ~ 176°F), operation |
| Relative Humidity | 10% ~ 95% relative humidity, non-condensing |

I/O

| | |
|---------------------|---|
| MIO | 1 x RS-232/422/485; with +5V/+12V powered 1 x RS-232 |
| SATA | 1 x SATA-300 |
| Hardware Monitoring | Detect CPU/system temperature and voltage |
| Ethernet | 2 ports 10/100/1000 Mbps supports Wake-on-LAN, PXE Boot ROM with Intel® i210IT |
| Audio | HD Codec audio as MIC-in/Line-out with Realtek ALC662 |
| USB | 5 x USB 2.0 1 x USB 3.0 |
| SMBus | System Management Bus for advanced monitoring/control |
| Digital I/O | 8 channels IN/OUT programmed |
| TPM | ST ST33TPM12LPC with TPM 1.2 compliant |

Features

- Intel® Atom™ processor E3845/E3827
- 1 DDR3L SO-DIMM supports up to 8 GB memory capacity
- 5 USB 2.0 ports and 1 USB 3.0 port
- 2 COM ports
- 2 PCI Express Mini Cards



Display

| | |
|-------------------|--|
| Chipset | Intel® HD Graphics |
| Memory Size | Share System memory |
| Display Interface | 1 x VGA 1 x LVDS; 18/24-bit single/dual channel 1 x HDMI |

Packing List

| Standard | | |
|--|--|-----|
| Quick installation guide, User's Manual/Utility CD and cable | | |
| Cable | | |
| Part Number | Description | Qty |
| 59382620000E | 1 x COM cable w/ bracket P=2.0 mm L=300 mm | 1 |
| Optional | | |
| 50966124030E | ADAPTER 12V60W FSP060-DIBAN2 W/SCREW | |

Ordering Information

| Standard | | |
|---|--|--|
| NANO840VHGGA-E3845 (P/N: E38K840100) | Nano-ITX SBC with Intel® Atom™ processor E3845 (1.91 GHz, 2 MB Cache, 10W), VGA/LVDS/HDMI, 2 GbE LAN, audio and gift box | |
| NANO840VHGGA-E3827 (P/N: E38K840101) | Nano-ITX SBC with Intel® Atom™ processor E3827 (1.75 GHz, 1 MB Cache, 8W), VGA/LVDS/HDMI, 2 GbE LAN, audio and gift box | |

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