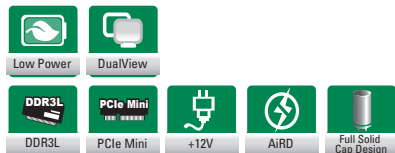


# PICO843

Pico-ITX SBC with Intel® Celeron® Processor J1900/N2807, LVDS/VGA, LAN and Audio

## Features

- Intel® Celeron® processor J1900/N2807 onboard
- 1 DDR3L-1066/1333 SO-DIMM, up to 8GB
- 4 USB 2.0 ports
- 2 COM ports
- 2 PCI Express Mini Card slots



### Core System

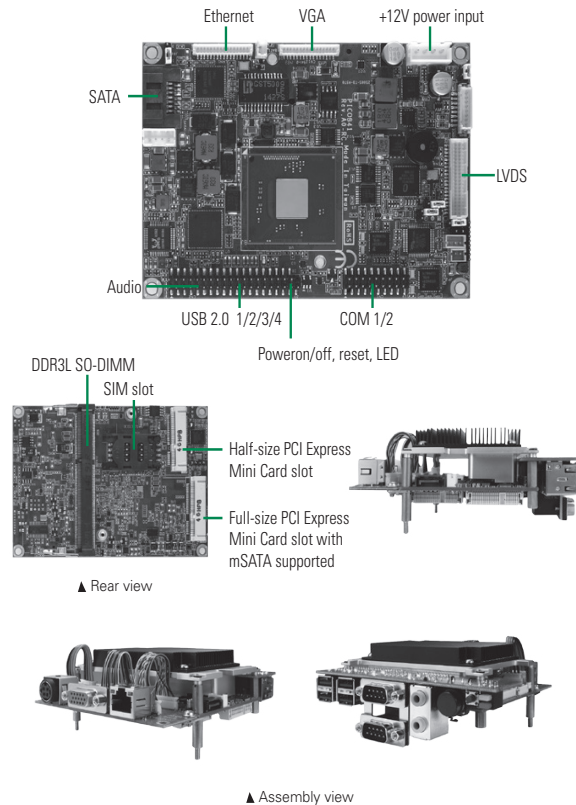
|                     |                                                                                                                                       |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| CPU                 | Intel® Celeron® processor J1900/N2807 onboard                                                                                         |
| System Memory       | 1 x 204-pin DDR3L-1066/1333 SO-DIMM, up to 8GB                                                                                        |
| 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 slot with mSATA<br>1 x half-size PCI Express Mini Card slot                                       |
| Battery Lithium     | Lithium 3V/220mAH                                                                                                                     |
| Power Input         | 1 x 4-pin connector<br>+12V DC-in only<br>AT Auto Power On function supported                                                         |
| Power Requirements  | Intel® Celeron® J1900 @ 2 GHz 4GB DDR3L<br>Max. RMS: +12V @0.9A<br>Intel® Celeron® N2807 @ 1.58 GHz 4GB DDR3L<br>Max. RMS: +12V @0.7A |
| Size                | 100 x 72 mm                                                                                                                           |
| Board Thickness     | 1.6 mm                                                                                                                                |
| Temperature         | -20°C ~ +70°C (-4°F ~ +158°F), operation                                                                                              |
| Relative Humidity   | 10% ~ 95% relative humidity, non-condensing                                                                                           |

### I/O

|                     |                                                                               |
|---------------------|-------------------------------------------------------------------------------|
| MIO                 | 2 x RS-232/422/485                                                            |
| SATA                | 1 x SATA-300                                                                  |
| Hardware Monitoring | Detect CPU/system temperature and voltage                                     |
| Ethernet            | 1 port 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                 | 4 x USB 2.0                                                                   |
| SMBus               | System Management Bus for advanced monitoring/control                         |
| Digital I/O         | NA                                                                            |
| TPM                 | ST ST33TPM12LPC with TPM 1.2 compliant                                        |

### Display

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



### Packing List

#### Standard

Quick installation guide, User's Manual/Utility CD and cable

#### Accessories

| Part Number  | Description       | Qty |
|--------------|-------------------|-----|
| 85932831000E | AX93283 I/O board | 1   |
| 85932671000E | AX93267 I/O board | 1   |
| 59406308010E | SATA cable        | 1   |
| 594P8800600E | SATA power cable  | 1   |
| 5078H843000E | Heatspreader      |     |
| 5078H100200E | Heatsink          | 1   |

#### Optional

| Part Number  | Description                             |
|--------------|-----------------------------------------|
| 594H8302800E | USB cable 20 x 2P, P=2.0 mm, L=200 mm   |
| 594H8303000E | Audio cable 20 x 2P, P=2.0 mm, L=200 mm |
| 594H8301600E | Power/Reset button + LED cable          |
| 594H8302100E | COM cable 10 x 2P, P=2.0 mm, L=200 mm   |
| 59340000200E | USB + Audio + LED cable, L=200 mm       |

### Ordering Information

#### Standard

|                                       |                                                                                                                       |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| PICO843VGA-J1900<br>(P/N: E38H843100) | Pico-ITX SBC with Intel® Celeron® processor J1900 (2 ~ 2.42 GHz, 2 MB Cache, 10 W), VGA/LVDS, 1 GbE LAN and audio     |
| PICO843VGA-N2807<br>(P/N: E38H843101) | Pico-ITX SBC with Intel® Celeron® processor N2807 (1.58 ~ 2.16 GHz, 1 MB Cache, 4.3 W), VGA/LVDS, 1 GbE LAN and audio |

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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