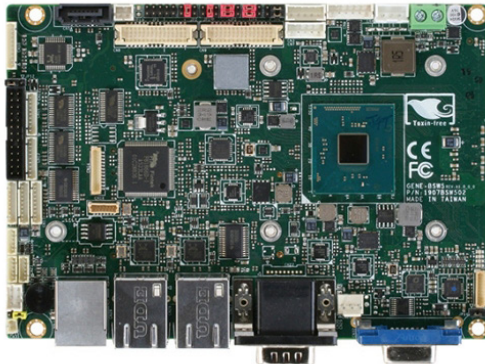


Embedded Single Board for OEM/ODM

ONYX GENE-BSW5

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



Features

- Onboard Intel® Pentium®/Celeron® N3000 Series Processor SoC
- DDR3L 1600 SODIMM x 1, Up to 8 GB
- Gigabit Ethernet x 2
- VGA, LVDS1, LVDS2/HDMI (Co-design)
- 2CH HD Audio
- Mini-Card x 1 (Full-Size)
- mSATA x 1 (Shared with Mini-Card, Half-size)
- USB 3.2 Gen 1 x 2, USB2.0 x 3, COM x 6, Digital I/O 8-bit
- +12V DC, AT/ATX



Specifications

System

| | |
|-----------------------------|----------------------------------------------------------------------------------|
| Form Factor | 3.5" SubCompact Board |
| CPU | Intel® Pentium® & Celeron® M/D Processor SoC |
| CPU Frequency | Up to 2.6 GHz |
| Chipset | Intel® Pentium® & Celeron® M/D Processor SoC |
| Memory Type | DDR3L 1600, SODIMM x 1 |
| 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) | Intel® Celeron® N3160 (2M Cache, up to 2.24 GHz, DDR3L 1600MHz, 8GB, 0.65A@+12V) |
| Dimension (L x W) | 5.75" x 4" (146 mm x 101.7 mm) |
| 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 |
| MFTB (Hours) | 81,000 |
| Certification | CE / FCC |

Display

| | |
|---------------------------|------------------------------------|
| VGA / LCD Controller | Intel® Pentium® & Celeron® M/D SoC |
| Video Output | LVDS x 2 + VGA, LVDS + HDMI + VGA |
| Backlight Inverter Supply | Up to 24-bit dual-channel LVDS |

I/O

| | |
|----------------|-------------------------------------------------|
| Ethernet | Realtek RTL-8111E, 10/100/1000Base-TX, RJ-45 x2 |
| Audio | High Definition Audio Interface |
| USB Port | USB 3.2 Gen 1 x 2 USB2.0 x 3 |
| Serial Port | RS-232/422/485 x 2, RS-232 x 4 |
| Parallel Port | SPP/EPP/ECP x 1 (Option, Shared with DIO) |
| HDD Interface | SATA 3.0 x 1 |
| FDD Interface | — |
| SSD | mSATA x 1 (Half-size) |
| Expansion Slot | Mini Card x 1 (Full-size) |
| DIO | 8-Bit |
| SIM | x 1 |
| TPM | — |
| Touch | x 1 (USB interface) |