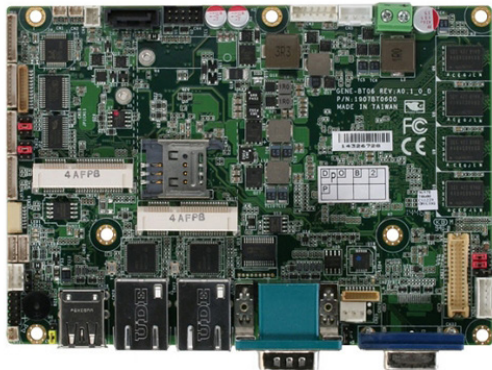


Embedded Single Board for OEM/ODM

ONYX GENE-BT06

3.5" SubCompact Board with Intel® Atom™ E3845/ E3825 and Celeron® Processor SoC



Features

- Intel® Atom™ E3845/ E3825 and Celeron® Processor SoC
- Onboard DDR3L Memory Max. 4 GB
- CRT, 18/24-bit Dual-Channel LVDS LCD, HDMI (DP Shared with HDMI/CRT, Optional)
- 2 CH Audio
- SATA 3.0 Gb/s x 1 & mSATA (Shared with Mini-Card)
- Supports 8-bit Digital I/O, USB2.0 x 3, USB 3.2 Gen 1 x 1
- RS-232 x 2, RS-232/422/485 x 2
- Mini-Card Slot x 2 (Full-size x 1, Half-size x 1)
- Wide DC Support 9~24V
- Supports TPM (Optional)
- 4/5/8-wire Resistive Touch Screen Controller (Optional)
- Solder Design For System Assembly and Thermal



Specifications

System

Form Factor	3.5" SubCompact Board
CPU	Intel® Atom™ E3845/E3825
CPU Frequency	Up to 2.0 GHz
Chipset	Intel® Atom™ series Processor SoC
Memory Type	Onboard DDR3L 1066/1333
Memory Capacity	Up to 4 GB
BIOS	UEFI
Wake on LAN	Yes
Watchdog Timer	255 Levels
Power Requirement	Wide DC support 9~24V
Power Supply Type	AT / ATX
Power Consumption (Typical)	Intel® N2930, DDR3L 1600MHz 4G, 0.64A@+12V
Dimension (L x W)	5.75" x 4" (146 mm x 101.6 mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C) or WITAS 2 (TBD)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MFTB (Hours)	110,000
Certification	CE / FCC

Display

VGA / LCD Controller	Intel® Atom™ Processor SoC
Video Output	CRT+LVDS, HDMI+LVDS, CRT+HDMI
Backlight Inverter Supply	18/24-bit dual-channel LVDS LCD

I/O

Ethernet	Intel® I211 (or 210), 10/100/1000Base-TX, RJ-45 x 2
Audio	High Definition Audio Interface
USB Port	USB2.0 x 3, USB 3.2 Gen 1 x 1
Serial Port	RS-232 x 2, RS-232/422/485 x 2
Parallel Port	SPP/EPP/ECP x 1
HDD Interface	—
FDD Interface	—
SSD	mSATA (Half-size, shared with Mini-Card)
Expansion Slot	Mini-Card x 1 (Full-size)
DIO	8-Bit
SIM	x 1
TPM	x 1
Touch	x 1