



## **DE-1000 – Intel® Atom™ E3845 Quad Core Power Efficient Fanless Computer**

DE-1000 Series Fanless Embedded PC supports Intel® Bay Trail platform, integrated with Intel® Atom™ E3845 Quad Core 1.91 GHz processor. Delivering the excellent quad-core processing power at only 10 watts power consumption, DE-1000 series is definitely an ideal solution for ultimate computing performance, energy efficiency, and superior reliability.

Designed with rich I/O, high flexibility and easy expansion capabilities, DE-1000 series is ideal for diverse industrial applications. It offers multiple I/O extension modules, including up to 2x PCI or 2x PCIe x1 slot for flexible integration of a variety of add-on cards; 2x mini-PCIe slot for GSM and WLAN wireless communication; it also supports three storage expansions: 2.5" SATA HDD, CFast and SIM card.

Supporting power ignition function, DE-1000 series can meet various applications, such as: surveillance, in-vehicle, and industrial automation applications, etc.

DE-1000 series supports wide temperature range from -25°C to 70°C, wide range (9~48V) DC power input, power protection, cable free and one-piece housing design, as well as compliant with EN50121-3-2 certification for rail transportation applications; it is designed to ensure stable operation in robust and harsh environments.

### **SPECIFICATIONS**

<b>CPU</b>	Intel® Atom™ E3845
<b>Memory Type</b>	DDR3L 1066 / 1333MHz (un-buffered and non-ECC)
<b>Memory Slots</b>	2
<b>Maximum Memory Supported</b>	8GB
<b>Integrated Graphics</b>	Intel® HD Graphics
<b>Watchdog Timer</b>	Software Programmable Supports 256 Levels System Reset
<b>Video</b>	1 x VGA (with optional split cable), 1 x DVI-I, 1 x DisplayPort (2560 x 1600)
<b>Audio</b>	Realtek ALC888S

<b>LAN</b>	2 x GbE LAN (GbE1: Intel® i210 GbE2: Intel® i210)
<b>Serial ATA (SATA)</b>	2 x 2.5" SATA SSD/HDD Bays
<b>Expansion</b>	2 x Full-size Mini PCIe
<b>Storage</b>	1 x mSATA (shared by Mini-Pcie socket), 1 x CFast
<b>SIM Socket</b>	x 1
<b>I/O</b>	1 x USB 3.2 Gen1, 4 x USB 2.0, 4 in / 4 out DIO, 6 x RS-232/422/485 COM Ports, 1 x PS/2, 2 x Antenna Holes, 1 x Power Switch, 1 x ATX Switch, 1 x Power/Reset Terminal Block, 1 x Mic-in, 1 x Line-out
<b>Power</b>	9~48VDC
<b>Operating Temperature</b>	-25°C to 70°C (-13°F to 158°F) with ambient air flow and industrial grade peripherals
<b>Storage Temperature</b>	-30°C to 85°C (-22°F to 185°F)
<b>Relative Humidity</b>	10~95% (non-condensing)
<b>Dimensions</b>	203 x 200 x 65mm
<b>Weight</b>	2.84 kg (6.3 lbs)
<b>Mounting</b>	Wall Mounting (Optional Side / VESA / DIN-Rail Mounting)
<b>OS Software Supported</b>	Windows 10, Windows 8, Windows Embedded 8 Standard, Windows 7, Windows Embedded Standard 7, Linux Upon Request
<b>EMC</b>	CE, UKCA, FCC, ICES-003 Class A, EN 50155 (EN 50121-3-2 Only)
<b>EMI</b>	CISPR 32 Conducted & Radiated: Class A, EN/BS EN 50121-3-2 Conducted & Radiated: Class A, EN/BS EN IEC 61000-3-2 Harmonic current emissions: Class A, EN/BS EN61000-3-3 Voltage fluctuations & flicker, FCC 47 CFR Part 15B, ICES-003 Conducted & Radiated: Class A
<b>EMS</b>	EN/IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV, EN/IEC 61000-4-3 RS: 80 MHz to 1000 MHz: 20 V/m, EN/IEC 61000-4-4 EFT: AC Power: 2 kV; Signal: 2 kV, EN/IEC 61000-4-5 Surges: AC Power: 2 kV, EN/IEC 61000-4-6 CS: 10V, EN/IEC 61000-4-8 PFMF: 50 Hz, 1A/m, EN/IEC 61000-4-11 Voltage Dips & Voltage Interruptions: 0.5 cycles at 50 Hz
<b>Safety</b>	LVD IEC/EN 62368-1
<b>Global P/N / SKU</b>	1708613

## **Ordering Options**

DE-1000 (SKU# 1708613A): Intel® Atom™ E3845 Quad Core Power Efficient Fanless Computer Package  
Checklist: DE-1000 Embedded System x 1 DIO Terminal Block Connector x 2 Power Terminal Block Connector  
x 1 Remote Power Terminal Block Connector x 2 DVI-I to VGA Adapter x 1 Screw Pack x 1 Wall Mount Kit x 1