Intel® Atom™ E3800 Series
Fanless Embedded System

EC700-BT

Atom



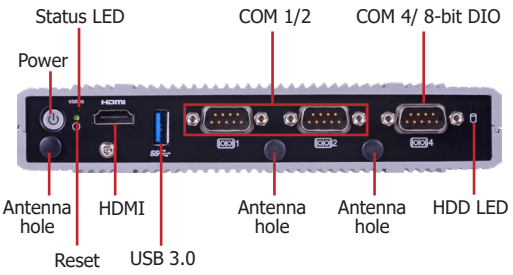
Features

- 4GB/2GB DDR3L ECC onboard
- 1 mSATA, eMMC (optional)
- 1x 2.5" SATA drive bay
- Supports Wi-Fi, 3G/4G, and GPRS application
- Error Correcting Code (ECC) delivers a high level of data integrity, reliability, and system uptime

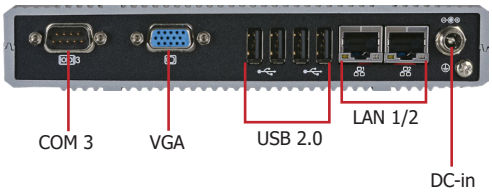
Fanless · FC · CE · RoHS · c UL us LISTED I.T.E. E131107 · S&E · Microsoft Azure Certified

ECC Memory · Wi-Fi · 3G · 36V 9V Wide Voltage · 60°C -20°C Wide Temperature

Panel

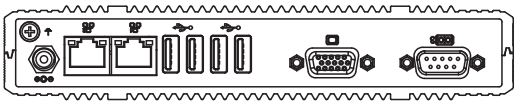


Front View

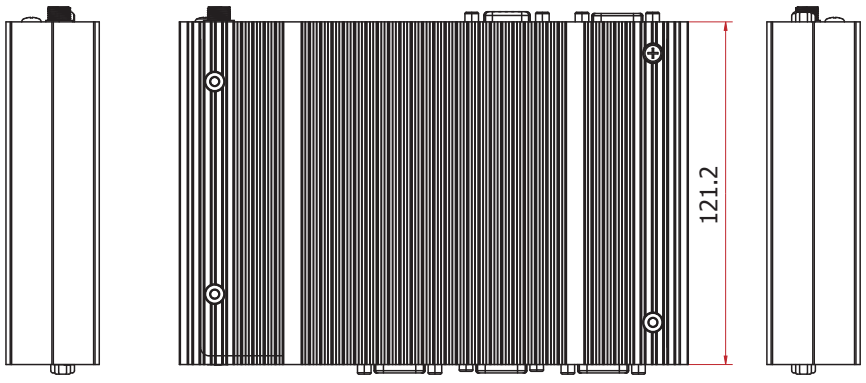


Rear View

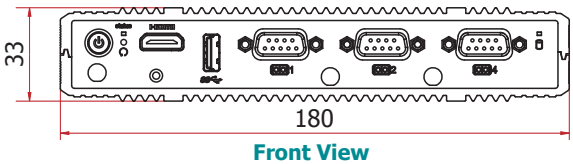
Dimensions



Rear View



Left View · Top View · Right View



Front View

EC700-BT

Specifications

** Optional and is not supported in standard model. Please contact your sales representative for more information.*

PROCESSOR SYSTEM
- Intel® Atom™/Intel® Celeron® processors (BGA 1170 packaging technology)
  - Intel® Atom™ E3845, Quad Core, 2M Cache, 1.91GHz, 10W
  - Intel® Atom™ E3825, Dual Core, 1M Cache, 1.33GHz, 6W
  - Intel® Celeron® J1900, Quad Core, 2M Cache, 2GHz (2.41GHz), 10W
  - Intel® Celeron® N2807, Dual Core, 1M Cache, 1.58GHz (2.16GHz), 4.3W

MEMORY
- 4GB/2GB DDR3L ECC onboard (-E45/-E25)
  4GB/2GB DDR3L non-ECC onboard (-J19/-N28)
- Supports DDR3L 1333MHz (-E45/-J19/-N28)
  Supports DDR3L 1066MHz (-E25)
- Supports single channel memory interface

GRAPHICS
- Intel® HD Graphics
- Display ports: 1 HDMI, 1 VGA or 1 DVI-I*
- HDMI, DVI: resolution up to 1920x1080 @ 60Hz
- VGA: 24-bit, resolution up to 2560x1600 @ 60Hz

STORAGE
- 1 2.5" SATA drive bay
  - SATA 2.0 port with data transfer rate up to 3Gb/s
- 1 mSATA module via a Mini PCIe slot
- Supports 4GB, 8GB, 16GB and 32GB eMMC onboard*

ETHERNET
- 2 Intel® I210 PCI Express Gigabit Ethernet controllers
- Integrated 10/100/1000 transceiver
- Fully compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab

COM
- 4 DB-9 ports
  - 3 DB-9 ports supports RS232/422/485 COM port
  - 1 DB-9 port supports RS232/422/485 COM or 8-bit DIO

EXPANSION
- 3 Mini PCIe slots
  - 2 slots for communication
    : One half size slot supports PCIe, USB, and LPC signals for Wi-Fi module or LPC module
    : One full size slot supports PCIe, USB, and 3G signals for 3G or GPRS module
  - 1 full size slot for storage
    : Supports mSATA module
- 1 SIM card socket
- 1 microSD socket*

DIO
- 1 8-bit DIO via the DB-9 port

TRUSTED PLATFORM MODULE (TPM)*
- Provides a Trusted PC for secure transactions
- Provides software license protection, enforcement and password protection

I/O PORTS
- Front Panel
  - 3 DB-9 serial ports
    : supports RS232/422/485
    : One of the ports supports 8-bit DIO
  - 1 USB 3.0 (Type A) port
  - 1 HDMI port
  - 3 Wi-Fi antenna holes
  - 1 status LED
  - 1 HDD LED
  - 1 reset button
  - 1 power button
- Rear Panel
  - 1 DB-9 serial port
    : supports RS232/422/485
  - 1 VGA port; or 1 DVI-I port*
  - 4 USB 2.0 (Type A) ports
  - 2 RJ45 LAN ports
  - 1 9~36V DC-in jack

POWER
- Power input voltage: 9~36V DC-in jack

ENVIRONMENT
- Temperature
  - Operating (E3845/E3825)
    : -20°C~60°C (SSD/mSATA)
    : 0°C~50°C (HDD)
  - Operating (J1900/N2807)
    : 0°C~60°C (SSD/mSATA)
    : 0°C~50°C (HDD)
  - Storage: -20°C~85°C
- Operating Vibration
  - IEC68-2-64 (3G) (SSD/mSATA)
  - IEC68-2-64 (1G) (HDD)
- Operating Shock
  - Half sine wave 15G, 11ms, 3 shock per axis (SSD/mSATA)
  - Half sine wave 3G, 11ms, 3 shock per axis (HDD)

CONSTRUCTION
- Aluminum + metal aluminum

MOUNTING
- Wall/VESA/DIN Rail mount
  - Mounting brackets and screws*

DIMENSIONS
- 180mm x 33mm x 121.2mm (W x H x D)

WEIGHT
- 800 g

OS SUPPORT
- Windows 7, WES 7, Windows 8, WES 8, Windows 8.1
- Linux (Distribution available upon request)

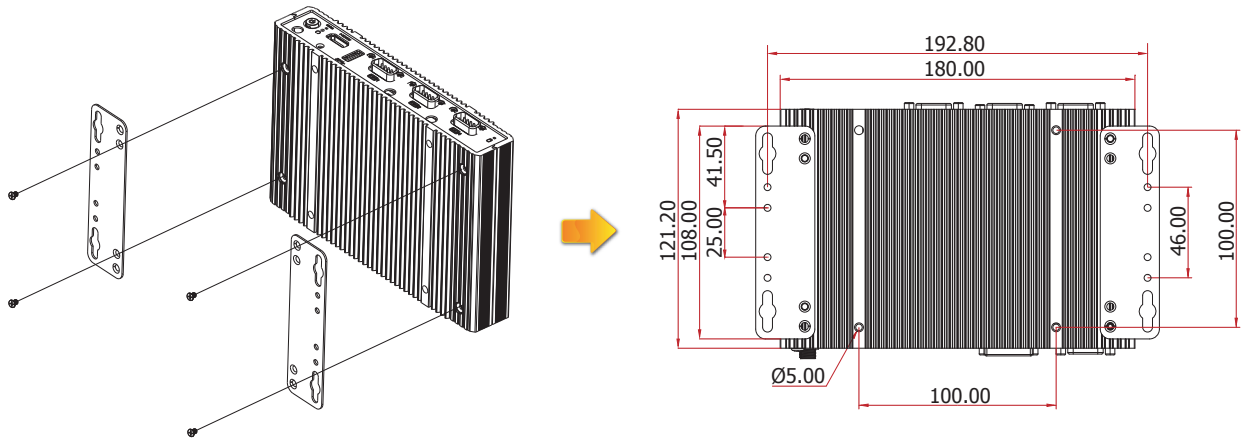
Note: Windows 10 will be available upon request. Please contact DFI for more information.

WATCHDOG TIMER
- Watchdog timeout programmable via software from 1 to 255 seconds

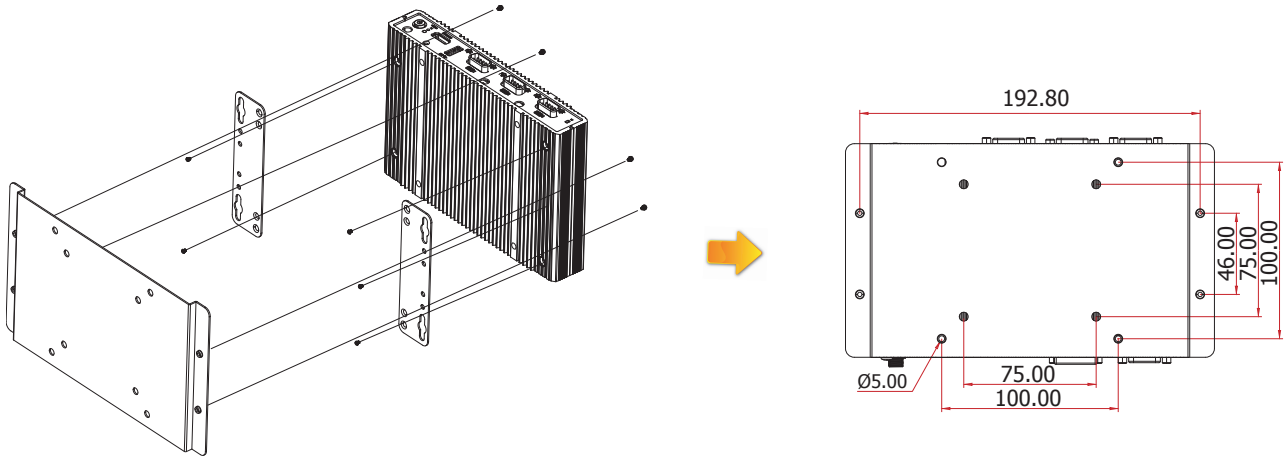
CERTIFICATION
- CE
- FCC Class B
- RoHS
- UL
- CCC

EC700-BT

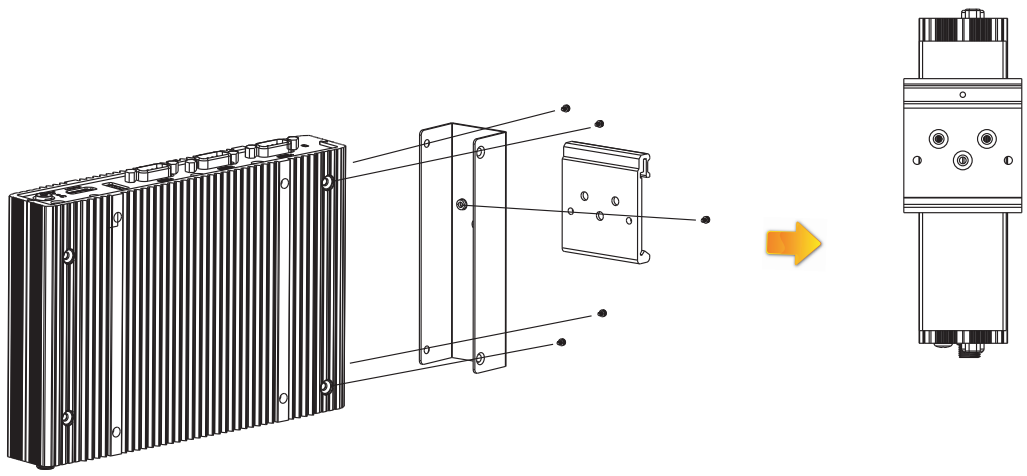
Wall Mounting



VESA Mounting



DIN Rail Mounting



EC700-BT

Ordering Information

Model Name	Part Number	Description
EC700-BT4051-E454	750-EC7000-700G	Fanless, Intel Atom E3845, 2 LAN, 1 HDMI, 1 VGA, 4 COM, 5 USB, 4GB DDR3L onboard, TPM, RoHS
EC700-BT4051-E252	750-EC7000-A00G	Fanless, Intel Atom E3825, 2 LAN, 1 HDMI, 1 VGA, 4 COM, 5 USB, 2GB DDR3L onboard, TPM, RoHS
EC700-BT4051-N282	750-EC7000-C00G	Fanless, Intel Celeron N2807, 2 LAN, 1 HDMI, 1 VGA, 4 COM, 5 USB, 2GB DDR3L onboard, no TPM support, RoHS
EC700-BT4051-J194	750-EC7000-D00G	Fanless, Intel Celeron J1900, 2 LAN, 1 HDMI, 1 VGA, 4 COM, 5 USB, 4GB DDR3L onboard, TPM, RoHS

Optional Items

Optional Items	Part Number	Description
HDD	785-H25500G	2.5” SATA HDD, 500GB, RoHS
	785-H25320G	2.5” SATA HDD, 320GB, RoHS
	785-S251TBG	2.5" SATA SSD, 1TB MLC, RoHS
	785-S25512G	2.5" SATA SSD, 512GB MLC, RoHS
	785-S25256G	2.5" SATA SSD, 256GB MLC, RoHS
	785-S25128G	2.5" SATA SSD, 128GB MLC, RoHS
	785-S25064G	2.5" SATA SSD, 64GB MLC, RoHS
	635-604802-100G	2.5" Intel SSD SC2BW480H601, 480GB, RoHS
mSATA	785-MS128GMF	mSATA Card, 128GB MLC, RoHS
	785-MS64GMF	mSATA Card, 64GB MLC, RoHS
	785-MS32GMF	mSATA Card, 32GB MLC, RoHS
	785-MS16GMF	mSATA Card, 16GB MLC, RoHS
	785-MS08GMF	mSATA Card, 8GB MLC, RoHS
	785-MS04GMF	mSATA Card, 4GB MLC, RoHS
Wi-Fi	761-110091-000G	Wi-Fi Kit, RoHS
3G + GPS	612-110040-600G	3G + GPS Kit, RoHS
Power Cord	785-PWRD	Power Cord, Standards (USA/EUR/CH), 1.8m, RoHS
Power Adapter	671-106012-000G	60W, 12V/5A, Level 6, RoHS
	671-106013-000G	60W, 12V/5A (-30 to 70°C), Level 6, RoHS
	671-106011-000G	60W, 19V/3.15A, Level 6, RoHS
Wall Mount	761-EC8000-000G	EC700/800 Wall Mount Kit, RoHS
VESA Mount	761-EC7000-100G	EC700 VESA Mount Kit, RoHS
DIN Rail Mount	761-EC8000-200G	EC700/800 DIN Rail Mount Kit, RoHS
DC Cord	A81-004031-007G	UL 1185 (5.5x2.5x9.5mm) with Nut to stripped and tinned, length 1000mm

Packing List

- 1 EC700-BT system unit
- Mounting screws for SATA drive
- Mounting screws for Mini PCIe module
- 1 Quick Installation Guide

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