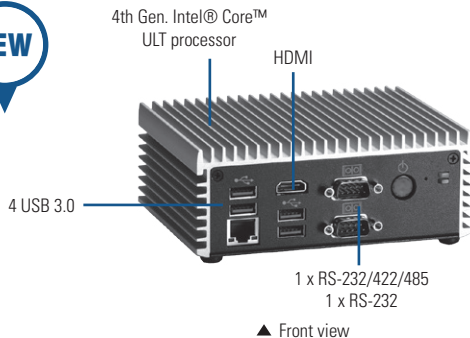


eBOX560-880-FL-ECM

Fanless EtherCAT Master Controller with
Intel® Core™ i5 & Celeron® Processor



Introduction

The eBOX560-880-FL-ECM EtherCAT controller is verified with IntervalZero EtherCAT Master middleware KingStar which is based on Acontis EtherCAT Master Stack and IntervalZero realtime extension RTX. With well-known Acontis EC-Master, it not only supports CoE, EoE, FoE and SoE enabling seamless integration with servo drives, but also offers Distributed Clocks function support for synchronization of all slave devices.

With IntervalZero Windows real-time extension RTX that through a separate real-time scheduler transforms Windows® 7 the general-purpose operating system into a fully functional RTOS that runs on multicore hardware, delivering deterministic time control to allow Master controller and Slave device communicating cycle time of 100/125µs, depends on servo motor.

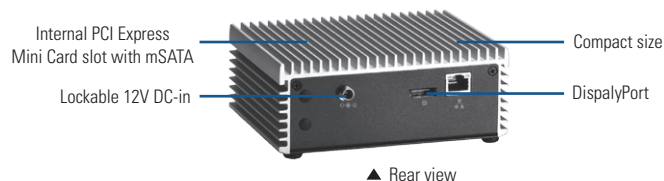
Specifications

Standard Color	Silver-Black
Construction	Aluminum extrusion and heavy-duty steel, IP40
CPU	Intel® Celeron® 2980U 1.6 GHz / Core™ i5 4300U 1.9 GHz Haswell ULT SoC onboard
System Memory	1 x 204-pin DDR3L-1600 SO-DIMM max. up to 8 GB
Chipset	Single Chip Design
BIOS	AMI
System I/O Outlet	1 x RS-232/422/485 1 x RS-232 1 x DisplayPort 1 x HDMI 1x EtherCAT port (Intel® i210) 1x GbE port (Intel® i218) 4 x USB 3.0 2 x SMA type connector opening for antenna 1 x VDC 12V power input connector 1 x ATX power switch 1 x Reset button
Watchdog Timer	255 levels, 1~255 sec.
Storage	1 x 2.5" SATA HDD drive bay 1 x mSATA
Expansion Interface	1 x Full-size PCI Express Mini Card slot (USB + PCI Express signal)
System Indicator	1 x green LED for system power-on 1 x orange LED for HDD active
Power Supply	Input AC 90-264V, AC 60W adapter with lock Output: DC 12V @ 5A
Operating Temperature	-20°C ~ +50°C (-4°F~+122°F) (with W.T. SSD)
Storage Temperature	-40°C ~ +80°C (-40°F~+176°F)
Humidity	10% ~ 90% , non-condensing
Vibration Endurance	3 Grms with SSD™ (5-500Hz, X, Y, Z directions)
Dimensions	141.5 mm (5.57") (W) x 106 mm (4.17") (D) x 55 mm (2.17") (H)
Weight (net/gross)	0.8 kg (1.76lb)/ 1.5kg (3.31lb)
Certificate	CE
EOS Support	WE8S, WES7, Linux

259

Features

- Intel® Celeron® 2980U/Core™ i5 4300U Haswell ULT SoC
- High performance 204-pin DDR3L SO-DIMM max. up to 8 GB
- 1 EtherCAT port and 1 GbE LAN port
- Verified with IntervalZero EtherCAT solution KingStarI032
- Supports Acontis EtherCAT master stack
- Supports IntervalZero Windows real-time extension RTX2012
- EtherCAT communication cycle 100/125µs
- 1 RS-232/422/485 and 1 RS-232 port
- One 2.5" SATA HDD drive bay and mSATA interface
- Supports 1 PCI Express Mini Card slot and 4 USB 3.0 ports
- Supports DisplayPort and HDMI dual view



Verified with software

Standard	
Operating System	Windows Embedded Standard 7 32 bit
Windows Extension	IntervalZero Windows realtime extension RTX2012
Test Middleware	IntervalZero KingStarI0 32 bit
EtherCAT Master	Acontis EtherCAT Master Stack 32 bit
EtherCAT Configurator	IntervalZero EtherCAT Configurator

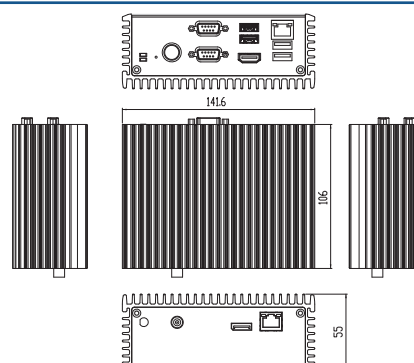
*Specifications and certifications are based on options and may vary.

Ordering Information

Standard	
eBOX560-880-FL-ECM-2980U-US	Fanless embedded system with Intel® Celeron® 2980U Haswell ULT processor, HDMI/DisplayPort, 2 GbE LAN, 4 USB 3.0, 2 COM and PCIe Mini Card, 60W AC/DC adapter and US power cord
eBOX560-880-FL-ECM-2980U-EU	Fanless embedded system with Intel® Celeron® 2980U Haswell ULT processor, HDMI/DisplayPort, 2 GbE LAN, 4 USB 3.0, 2 COM, PCIe Mini Card, 60W AC/DC adapter and EU power cord
eBOX560-880-FL-ECM-4300U-US	Fanless embedded system with Intel® Core™ i5-4300U Haswell ULT processor, HDMI/DisplayPort, 2 GbE LAN, 4 USB 3.0, 2 COM, PCIe Mini Card, 60W AC/DC adapter and US power cord
eBOX560-880-FL-ECM-4300U-EU	Fanless embedded system with Intel® Core™ i5-4300U Haswell ULT processor, HDMI/DisplayPort, 2 GbE LAN, 4 USB 3.0, 2 COM, PCIe Mini Card, 60W AC/DC adapter and EU power cord

*Specifications and certifications are based on options and may vary.

Dimensions



* All specifications and photos are subject to change without notice.