

EC90A-AL

Atom

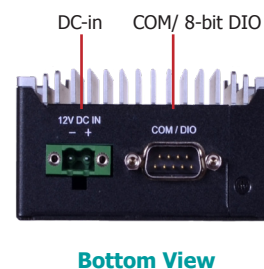
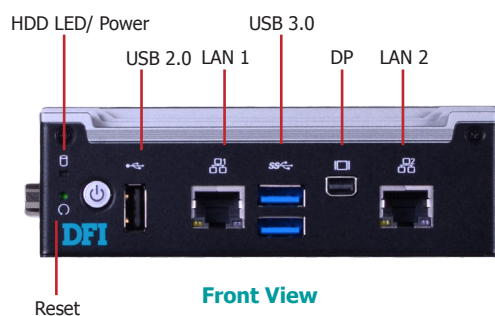


► Features

- Palm-sized and Fanless Embedded System
- 2GB/4GB LPDDR4-2400 memory onboard
- Mini-DP++ resolution supports up to 4096x2160 @ 60Hz
- Supports 1 Mini PCIe
- Rich I/O ports: 2 Intel GbE, 1 COM, 3 USB
- Extended operating temperature: -20 to 60°C



► Panel



► Dimensions

Coming Soon

Specifications

SYSTEM	Processor	Intel Atom® Processor E3900 Series, BGA 1296 Intel Atom® x5-E3940 Processor, Quad Core, 2M Cache, 1.6GHz (1.8GHz), 9W Intel Atom® x5-E3930 Processor, Dual Core, 2M Cache, 1.3GHz (1.8GHz), 6.5W
	Memory	2GB/4GB Memory Down Dual Channel LPDDR4 2400MHz
	BIOS	Insyde SPI 128Mbit
GRAPHICS	Controller	Intel® HD Graphics
	Feature	OpenGL 4.2, Direct X 11.1, OpenCL 1.2, OGL ES 3.0 HW Decode: H.264, MPEG2, VC1, VP8, H.265, MPEG4, MVC, VP9, WMV9, JPEG/MJPEG HW Encode: H.264, MPEG4, VP8, H.265, MVC
	Display	1 x Mini-DP++ DP: resolution up to 4096x2160 @ 60Hz
	Single Display	Mini-DP++
STORAGE		16GB/32GB/64GB eMMC
EXPANSION	Interface	1 x Full-size Mini PCIe (PCIe/USB)
ETHERNET	Controller	2 x Intel® I210IT PCIe (10/100/1000Mbps)
LED	Indicators	1 x Power LED
		1 x HDD LED
FRONT I/O	Ethernet	2 x GbE (RJ-45)
	USB	2 x USB 3.0 (type A) 1 x USB 2.0 (type A)
	Buttons	1 x Power Button
	Switch	1 x Power Switch (2-pin)
TOP I/O	Wi-Fi Antenna	2 x Wi-Fi Module Antenna Hole
BOTTOM I/O	Serial	1 x RS-232/422/485 (DB-9) (8-bit DIO selected by jumper)
WATCHDOG TIMER	Output & Interval	System Reset, Programmable via Software from 1 to 255 Seconds
POWER	Type	12V DC-in
	Connector	2-Pole Terminal Block
OS SUPPORT		Windows 10 IoT (64-bit) Linux Yocto Project (64-bit)
		Ubuntu 16.04 64-bit (Intel graphic driver available)
MECHANISM	Construction	Sheet Metal
	Mounting	DIN Rail Mount
	Dimensions (W x H x D)	TBD
	Weight	TBD
ENVIRONMENT	Operating Temperature	-20 to 60°C (TBD) With 0.7m/s Air Flow
	Storage Temperature	-40 to 85°C
	Relative Humidity	5 to 90% RH (non-condensing)
STANDARDS AND CERTIFICATIONS	Shock	Operating: 3G, 11ms Non-Operating: 5G, 11ms
	Vibration	Operating: Random 5~500Hz, IEC68-2-64 (3G) Non-Operating: Sine 10~500Hz, IEC68-2-6 (3G)



► **Wall Mounting**

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► **VESA Mounting**

Coming Soon

► **DIN Rail Mounting**

Coming Soon

► Ordering Information

Model Name	Part Number	Description
EC90A-AL552CPD-E3950-4	TBD	Fanless, Intel Atom E3950, 2 Mini-DP, 1 DVI-D, 2 LAN, 2 COM, 4 USB, 4GB LPDDR4 onboard, -20 to 60°C, RoHS

► Optional Items

Optional Items	Part Number	Description
Wi-Fi	785-WIFIKT	Wi-Fi 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
DIN Rail Mount	TBD	EC90A-AL DIN Rail Mount Kit, RoHS

785-XXX is a group number instead of a unique part number. Please contact your regional sales representative if you need more information.

► Packing List

• 1 EC90A-AL system unit
• Mounting screws for Mini PCIe module
• 1 Quick Installation Guide