



Rugged design for industrial applications in harsh environments

IE-AP300

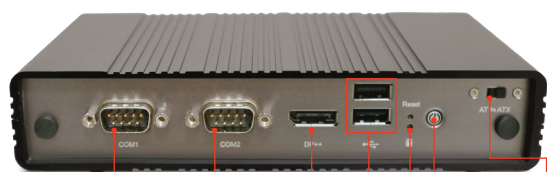


The IE-AP300 is a IPC with a rugged and fanless design. Due to its fanless design, the device is dustproof and is therefore very suitable for segments such as industry or transportation. The device has multiple I/O ports specially for industrial environments, such as two COM ports, two LAN ports, a VGA and a total of 6 (4 x USB3.0 and 2 x USB2.0) USB ports. With up to 8GB of DDR3L memory, and the input voltage design, the IE-AP300 is equipped for heavy processing in harsh environments.

The IE-AP300 features :

- + Rugged and fanless design
- + Suitable for industrial and kiosk applications
- + Multiple COM Ports for industrial control
- + Intel® E3940 CPU
- + Wide operating temperature range (-40 ~ 70°C)

IE-AP300



COM1 COM2 DP++ USB2.0 x2 HDD LED Power Button AT/ATX SW



DC-in USB3.0 x4 RJ45 LAN Jack x2 VGA

Model name		IE-AP300
Features		
CPU		Intel® Apollo Lake E3940
Dimension		183(W) x 36(H) x 115.2(L) mm MB:146 x 102mm
External I/O		Support 2 x RS232/422/485, 1 x VGA, 1 x DisplayPort, 2 x USB2.0, 4 x USB3.0, 2 x RJ45, 1 x AT/ ATX switch, DCIN 9-36V, 4 x antenna hole
Internal I/O		Built-in 1 x M.2 2230 slot for Wifi module, 1 x Full size Mini PCIe slot for mSATA, 1 x Full size Mini PCIe slot
Storage		1 x mini PCIe mSATA
Certification		Complete certification for EMC and Safety UL, CB, CCC, CE, FCC, RoHS
Supports OS		Windows 10 IoT 2016 LTSC
IoT SW integration (AiCU)		-
Warranty		3 years
Specifications		
Processor System	CPU	Intel® Apollo Lake E3940
	L2 Cache	2MB
	BIOS	AMI UEFI
Memory	Technology	Dual channel DDR3L 1866MHz, up to 8GB
	Socket	one SO-DIMM
Graphics	Chipset	Intel® Apollo Lake E3900 Series SoC Intel® HD Graphics 500
	Interface	DP1.2 x 1 max resolution up to 4096 x 2160@60Hz VGA x 1: max resolution up to 1920 x 1200@60Hz

Ethernet	LAN	Support Dual 10/100/1000Mbps LAN LAN 1: Intel I211AT LAN 2: Intel I211AT
I/O Interface	Serial Ports	DB9 x 2, COM1 & COM2, Support RS232/422/485 switch by BIOS
	USB Interface	2 x USB2.0, 4 x USB 3.0
	SATA	-
	TPM	support TPM2.0 (fTPM)
Expansion	Mini PCIe	Built-in 1 x M.2 2230 slot for Wifi module, 1 x Full size Mini PCIe slot for mSATA, 1 x Full size Mini PCIe slot
Storage	2.5" SSD	-
	mSATA	1 x Full size Mini PCIe slot for mSATA
Power Requirement	Power Input Voltage	DC 9-36V
	Power Adaptor	AC to DC 19V / 3.74A 90W
Power Consumption	Typical	20W
	Max	25W
	Power Type	AT/ATX by Switch option
Mechanical	Construction	Aluminum + SECC
	Mounting	L Type wall mount
Weight	Net Weight	1.16Kg
	Gross Weight	1.48Kg
Environment		
Operating Temperature		E3900 series SoC SKU -40~70°C
Storage Temperature		-40 ~ 70°C
Relative Humidity		90% RH (70°C non-condensing)
Vibration During Operation		2.20G/Random 10min per axis in all 3 axes
Shock During Operation		Half sine, 40G, 2~3 ms duration
EMC		CE/FCC Class B
Safety Certifications		CB, UL, CCC

Supports:



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