

Embedded System



Fanless embedded system with two PCI and one PCIe x 1 expansion , Intel Bay-Trail J1900 2GHz, TDP 10W, 2GB DDR3L pre-installed memory , 1 x DVI-I, 1 x DisplayPort , iRIS-2400 optional, 9V~36V DC; RoHs, Operating Temperature -20°C ~ 60°C with air flow (SSD), 5% ~ 95%, non-condensing Various expansion type: » 3A : One PCIe x1 + Two x PCI » 3B: Two PCIe x1 + One x PCI » 3C: Three x PCI

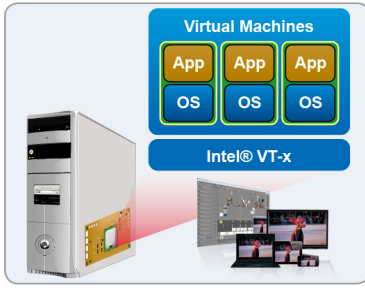
Model: ITK180PC-J

FEATURES:

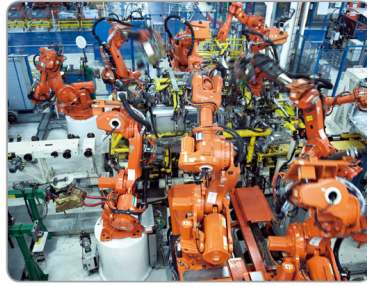
- Intel® Celeron® J1900 2 GHz, 10W
- 16-bit digital I/O, 8-bit input/8-bit output
- 1 x DVI-I
- 1 x DisplayPort
- Dual DC power input
- Various expansion type:
 - 3A : One PCIe x1 + Two x PCI
 - 3B: Two PCIe x1 + One x PCI
 - 3C: Three x PCI



ENHANCED VISUAL EXPERIENCE



Support Intel® Virtualization Technology



Automation

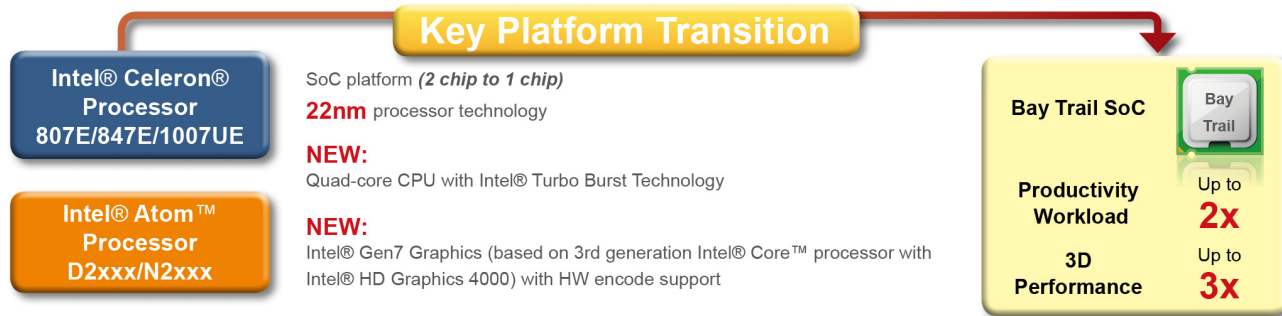


Video HD Technology
Spectacular HD Playback

Intel® Bay Trail SOLUTION

Intel® Bay-Trail SoC (system on chip) integrates with CPU and graphics. With the Gen 7 graphics and the DX11 and full HD support, the ITK180PC-J is a good solution for visual application.

INTEL® BAY TRAIL PLATFORM TRANSITION



Intel® Bay Trail Graphics and Media Features

3D Graphics: DX11.1, OGL 4.0, OGL ES 2.0, OVG 1.1
Video Decode: H.264, MPEG2, MPEG4, VC1/WMV9, VP8 up to 1080p decode
Video Encode: H.264, MPEG2

DIVERSIFIED EXPANSION INTERFACES

The ITK180PC-J Series has three different expansion options on PCI and PCIe slot selection. Users can choose the suitable model for their application.

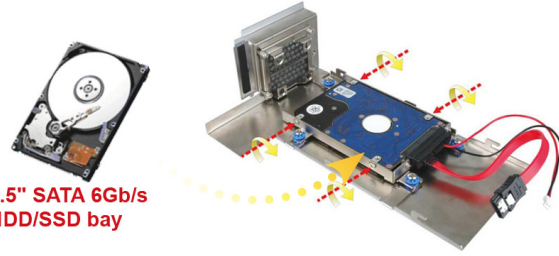
Backplane	Slot type	Signal
HPE-3S6 (2P1E)	PCI	PCI
	PCIe x16	PCIe x16
	PCI	PCI
HPE-3S6 (2P1E)	PCIe x4	PCIe x1
	PCIe x16	PCIe x1
HPE-3PCI	PCI	PCI

SPECIFICATIONS

Chassis	Color	Black C + Silver	
	Dimensions (WxDxH) (mm)	136 x 219 x 188	
	System Fan	Fanless	
	Chassis Construction	Extruded aluminum alloys	
Motherboard	CPU	Intel® Celeron® J1900 2 GHz	
	Chipset	SoC	
	System Memory	1 x 204-pin DDR3L SO-DIMM, 2GB pre-installed (system max: 8 GB)	
IPMI	iRIS Solution	1 x iRIS-2400 (optional)	
Storage	Hard Drive	1 x 2.5" SATA 3Gb/s HDD/SSD bay	
	CF Card/CFast	1 x CFast	
I/O Interfaces	USB 3.0	2	
	USB 2.0	2	
	Ethernet	2 x RJ-45 1 x PCIe GbE by Intel® I210 1 x PCIe GbE by Intel® I211	
	COM Port	2 x RS-232 (DB-9) 2 x RS-232/422/485 (DB-9, with isolation)	
	Digital I/O	16-bit digital I/O, 8-bit input/8-bit output	
	Display	1 x DisplayPort, 1 x DVI-I	
	Resolution	DisplayPort: Up to 2560 x 1600 MHz DVI-I: Up to 2560 x 1600 MHz	
	Audio	1 x Line-out, 1 x Mic-in	
	Wireless	1 x 802.11b/g/n (optional)	
	Expansions	PCI/PCIe	3A: One PCIe x1 + Two x PCI 3B: Two PCIe x1 + One x PCI 3C: Three x PCI
		PCIe Mini	1 x Full-size PCIe Mini
Power	Power Input	DC Jack: 9 V~36 V DC Terminal Block: 9 V~36 V DC	
	Power Consumption	19 V@1.8 A (Intel® Celeron® J1900 with 2 GB DDR3 memory)	
Reliability	Mounting	Wall mount	
	Operating Temperature	-20°C ~ 60°C with air flow (SSD), 5% ~ 95%, non-condensing	
	Storage Temperature	-40°C ~ 85°C with air flow (SSD) 5% ~ 90%, non-condensing	
	Operating Shock	Half-sine wave shock 5G, 11 ms, 3 shocks per axis	
	Operating Vibration	MIL-STD-810F 514.5C-2 (with SSD)	
	Weight (Net/Gross)	2.8 kg/4.3 kg	
	Safety/EMC	CE/FCC	
OS	Supported OS	Microsoft® Windows® 8 Embedded, Microsoft® Windows® Embedded Standard 7 E	

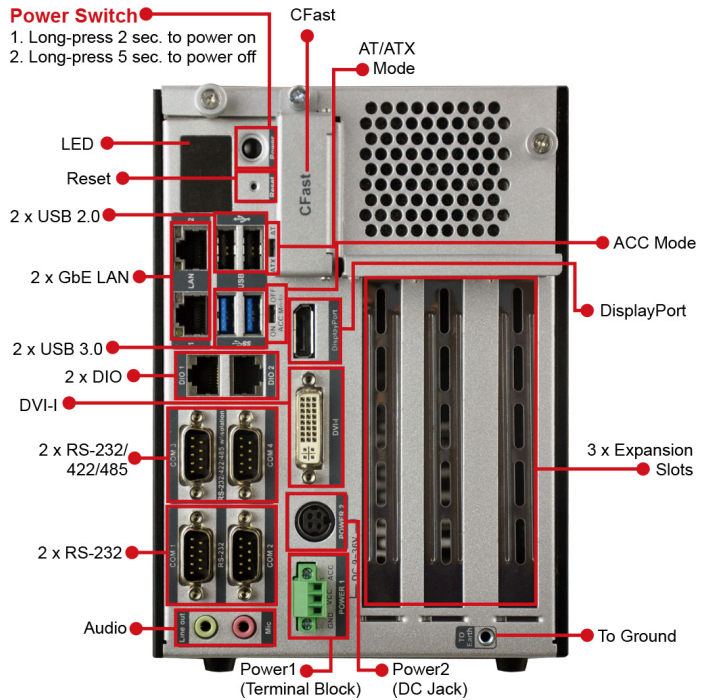
EASY OF INSTALLATION

Users can easily install SO-DIMM, PCIe Mini cards and expansion cards by removing the ITK180PC-J's top cover. A 2.5" SATA HDD/SSD bay is located on the top cover, which is very convenient for users to maintain the system.



2.5" SATA 6Gb/s HDD/SSD bay

FULLY INTEGRATED I/O



DIMENSION (UNIT: MM)

