ABOX-3010

Industrial Box PC for robot application

Specification

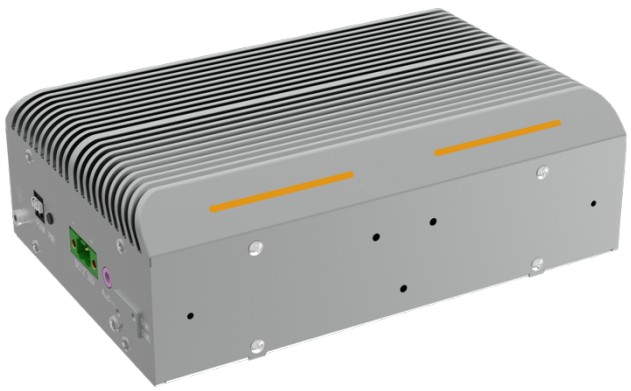
V2.0

Key features:

- Rugged & Compact, fanless design box structure;
- On-board Intel 6th /7th Celeron, Core i3/i5/i7 -U series processors;
- Single DDR4 memory, up to 16GB, 1* M.2 2242/2280 SSD storage;
- 2* GLAN, optional 4G, WIFI/BT expansion, support dual 4G communication;
- 1 * HDMI and 1* DP++ (Ultra HD 4K) display ports;
- 2* USB2.0, 4* USB3.0, 4*COM, 1*HDMI, 1*DP++;
- DC 12V power input, industrial operating temp. -20 ~ +60 ℃.

Product Image

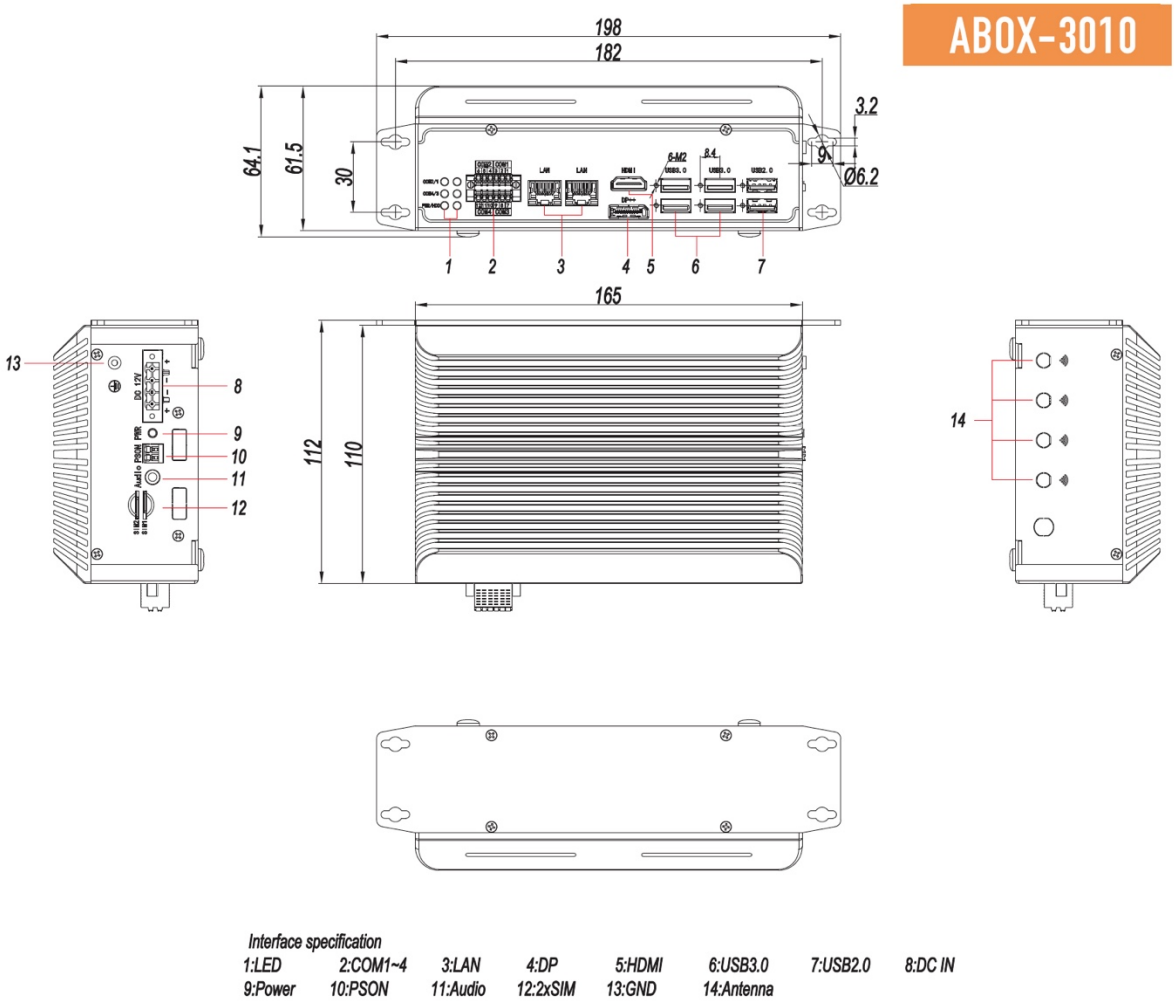




Technical Data

System	
Processor	Intel® 6^{t}/7th Core™ Celeron /i3/i5 CPU, TDP=15W (fan-less)
	14nm SoC
	AMI EFI BIOS, support ACPI, CPU temperature, system voltage monitoring
Memory	1* DDR4 SO-DIMM
	Max. single RAM up to 16G
Storage	1* M.2 2242/2280, support NVMe/SATA 3.0 storage
Display	CPU integrated Intel® HD Graphics
	1* HDMI (Max. 3840*2304, @30Hz), 1x DP++ (Max. 4096x2304, @60Hz)
Network	2* Intel® Ethernet Connection
	1* Mini-PCIE (Half/ full, optional 3G/4G, Wi-Fi), 1* M.2-3050 (optional 4G/5G), 2* nano-Sim slot
I/O	4* USB3.0, 2*USB2.0
	4* R232 (1* 2x6 pins terminal, optional support RS485)
Power	DC
	1* 4 pin Power phenix terminal, P=5.08, lockable
	DC 12V
LED/Switch	1* Power LED (Blue)
	1* Storage LED (Yellow)
	4* COM LED (Green)
	1* Power button
	1* External switch
Watchdog	Programmable 255 ms
OS	Windows 7/8.1/10, Linux
Structure	
Treatment	Hard anodic oxidation treatment + paint spray
Color	Iron grey
Cooling	Fan-less design
Weight	Around 1.2 kg (Net weight)
Dimension	165mm(L) x 110mm(W) x 61.5mm(H)
Mounting	Desktop, wall mount, optional Din-Rail (Din 35)
Environmental	
Operation temp.	Operating temp.: -20~60°C (Industrial SSD)
Storage temp.	-40~80°C
Humidity	10%~90%@40°C (non-condensation)
Vibration	SSD：3Grms@5~500Hz，random，1 hr/axis；
Shock	10G/peak (11ms sec)

Dimension & Interface



Interface specification

1:LED	*2:COM1~4*	*3:LAN*	*4:DP*	*5:HDMI*	*6:USB3.0*	*7:USB2.0*	*8:DC IN*
9:Power	*10:PSON*	*11:Audio*	*12:2xSIM*	*13:GND*	*14:Antenna*		

Ordering Information

Part no.	Description
ABOX-3010-xxxx	Intel xxxx processors, 2*GLAN, 4*USB3.0, 2*USB2.0, 4*COM, 1*HDMI, 1*DP, DC 12V, PSU

xxxx: Intel CPU processors code

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