

# ABOX-3020

## Industrial Box PC for robot application

### Specification

V2.0

#### Key features:

- Rugged & Compact, fanless design box structure;
- On-board Intel 6<sup>th</sup> /7<sup>th</sup>/8<sup>th</sup> 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, 8\*COM, 1\*HDMI, 1\*DP++;
- Modular design, support various IO expansions;
- DC 12V power input, industrial operating temp. -20 ~ +60 °C.

#### Product Image

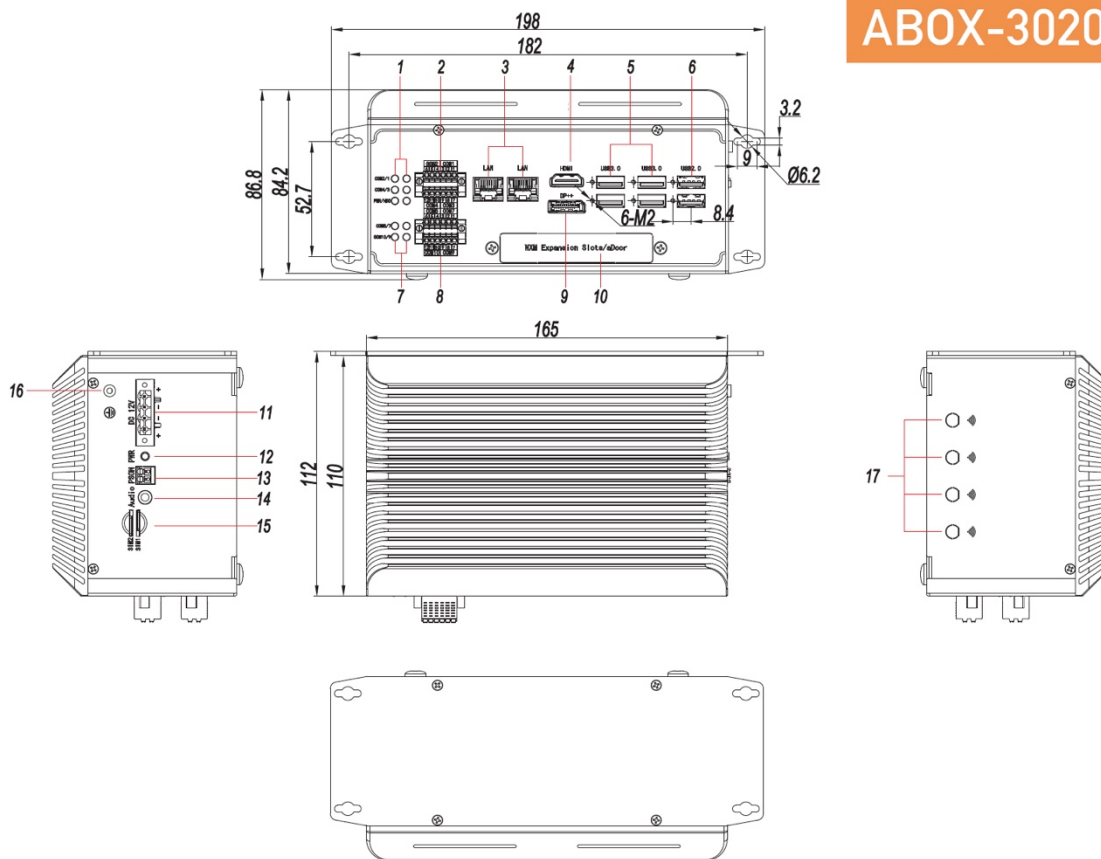


## Technical Data

System	
Processor	Intel® 6 <sup>th</sup> /7 <sup>th</sup> /8 <sup>th</sup> Celeron, Core™ 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 8* R232 (2* 2x6 pins terminal, COM 1~6 support RS485)
Expansion	GPIO: 1* 20 pin (8-in/8-out) Optional support Adoor modules expansion Optional support MXM modules expansion
Power	DC 1* 4 pin Power phenix terminal, P=5.08, lockable DC 12V
LED/Switch	1* Power LED (Blue) 1* Storage LED (Yellow) 8* 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 1.4 kg (Net weight)
Dimension	165mm(L) x 110mm(W) x 84.2mm(H)
Mounting	Desktop, wall mount, optional Din-Rail (Din 35)
Environmental	
Operation temp.	Operating temp.: -20~60°C (Industrial SSD)
Storage	-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

**ABOX-3020**



Interface specification

1:LED	2:COM1-4	3:LAN	4:HDMI	5:USB3.0	6:USB2.0	7:LED	8:COM7-COM10
9: DP	10: MXM/aDoor	11:DC IN	12:Power	13:PSON	14:Audio	15:2xSIM	16:GND
17:Antenna							

## Ordering Information

Part no.	Description
ABOX-3020-xxxx	Intel xxxx processors, 2*GLAN, 4*USB3.0, 2*USB2.0, 8*COM, 1*HDMI, 1*DP, DC 12V, PSU

**xxxx: Intel CPU processors code**



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