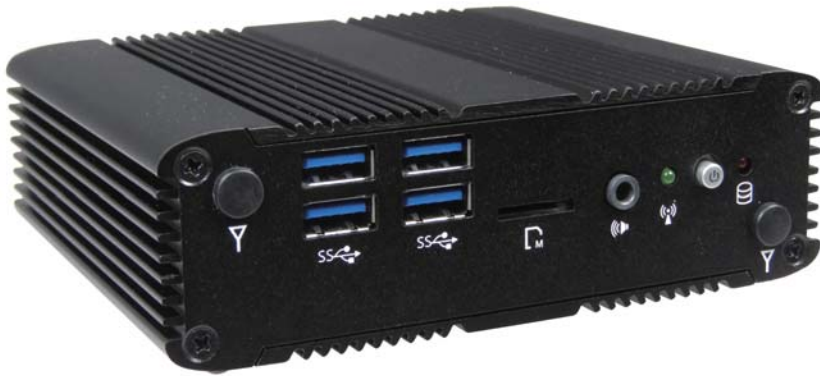# QBOX-1800

Fanless BOX PC
with Intel® Braswell SoC Processor

- Intel® Braswell SoC Processor, Celeron® N3160
- 2x DDR3L 1600 SO-DIMM up to 8GB
- 1x 2.5" SATA HDD / SSD, 1x Micro SD Card Cage for storage
- Intel® HD Graphics 400 integrated
- 2x HDMI, 1x DP for video output
- 1x LAN, 4x USB3.0, 1x COM for network and peripheral connection
- 1x mPCIe, 1x SIM card holder (optional) for wireless expansion
- Extended input voltage range: DC 9~24V
- Fanless design
- Palm-sized compact volume

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Product Overview

The QBOX-1800 is a fanless BOX PC boasting high computing and graphics performance, based on Intel®'s latest Braswell SoC Processor, Celeron® N3160, as well as Intel® HD Graphics 400 integrated. In addition, it supports 2x HDMI, 1x DP, 1x LAN, 4x USB 3.0, 1x COM, 1x Audio Jack, 1x mPCIe socket for network / peripheral applications and expansions.
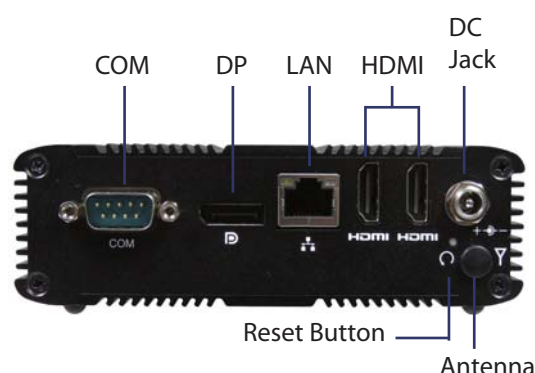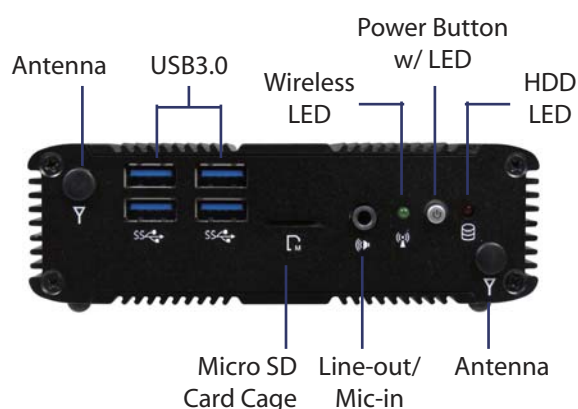
Enclosed in a high reliable rugged case integrated with passive cooling design, the QBOX-1800 not only has great resistance to EMI, cold, heat or other harsh conditions, but also offers noise-free operation for a pleasant environment. In addition, the palm-sized volume facilitates integration into space-critical applications.
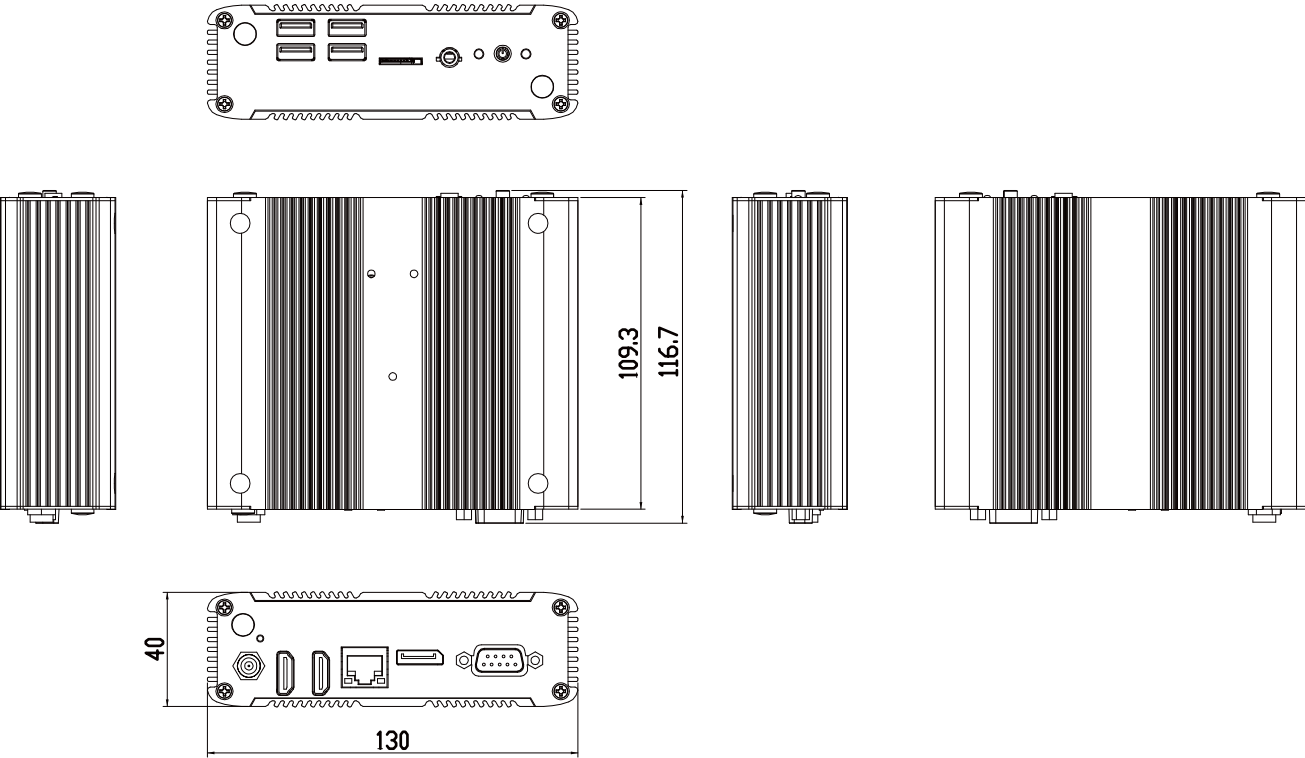
Technical Information

CPU Support	
Intel® Celeron® N3160	
(Quad Core, 2M Cache, up to 2.24 GHz, FCBGA1170 socket, 6W TDP)	
Memory	
2x DDR3L 1600 SO-DIMM up to 8GB	
Graphic Controller	
Intel® HD Graphics 400 (integrated)	
Display Interfaces	
2x HDMI (on rear, 3840 x 2160 @ 30Hz / 2560 x 1600 @ 60Hz)	
1x DP (on rear, 3840 x 2160 @ 30Hz / 2560 x 1600 @ 60Hz)	
Multiple Display	
Triple	
Audio Chipset	
Realtek ALC662	
Audio Interfaces	
1x Line-out / Mic-in (on front)	
Ethernet	
1x LAN (RJ-45 on rear, Intel® I210-AT)	
USB	
4x USB3.0 (Type A on front)	
Serial Ports	
1x RS-232/422/485 (DB9 on rear)	
Storage & Expansion	
1x 2.5" SATA HDD / SSD	
1x Micro SD Card Cage (on front)	
1x mPCIe	
1x SIM Card Cage (by wafer)	
Power Supply	
Connector: Lockable DC Jack (on rear)	
Input Voltage: DC 9V ~ 24V	
Power Adapter: AC to DC, 100V ~ 240V	

Firmware	
BIOS: AMI uEFI BIOS w/ 128Mb SPI Flash	
Watchdog: Programmable WDT to generate system reset event	
H/W Monitor: Input & Core Voltages, CPU & System Temperatures	
Real Time Clock: SoC integrated RTC	
System Control & Monitoring	
1x Power Button w/ LED (on front)	
1x Reset Button (on rear)	
1x Storage LED (on front)	
1x Wireless LED (on front)	
Cooling	
Fanless	
OS Support	
Windows 7, Windows 8, Windows 10, Linux	
Construction	
Aluminium Chassis	
Dimensions (W x D x H)	
130 x 116.7 x 40 mm / 5.12" x 4.59" x 1.57"	
Weight	
0.75 kg / 1.65 lb	
Environmental Characteristics	
Operation Temp.: 0°C ~ 50°C / 32°F ~ 122°F	
Storage Temp.: -20°C ~ 80°C / -4°F ~ 176°F	
Humidity: 0% ~ 90%	
Mounting	
VESA Mount	
Certification	
CE, FCC Class A	

QBOX-1800 I/Os

Antenna · USB3.0 · Wireless LED · Power Button w/ LED · HDD LED · Micro SD Card Cage · Line-out/ Mic-in · Antenna

COM · DP · LAN · HDMI · DC Jack · Reset Button · Antenna

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Mechanical Dimensions

109.3
116.7

40

130

Ordering Information

Article	Part No.	Description
QBOX-1800	SQBX180000010T00	Intel® Celeron® Quad Core N3160 SoC Processor, 2x DDR3L SO-DIMM, 2x HDMI, 1x DP, 1x LAN, 4x USB3.0, 1x COM, 1x mPCIe

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