QBOX-2800 Series

Standard / Extended Temperature
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
- •• Extended temperature model available: -20°C ~ 70°C

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Product Overview

QBOX-2800 Series 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.
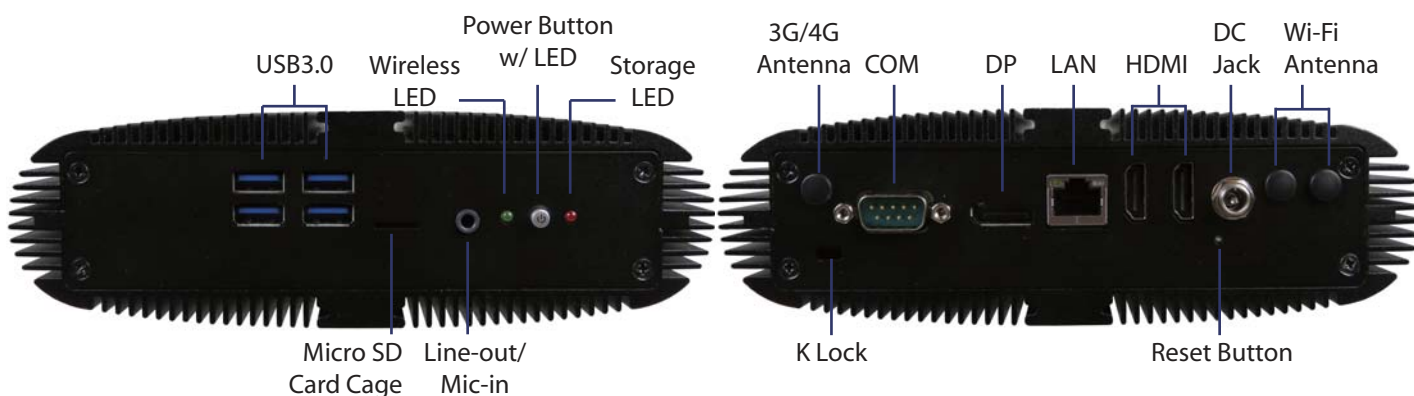
Enclosed in a high reliable rugged case integrated with passive cooling design, QBOX-2800 Series not only has great resistance to EMI, cold, heat or other harsh conditions, but also offers noise-free operation for a pleasant environment. Finally, an extended temperature model is offered for employment under extreme high, low or radically fluctuating temperatures.
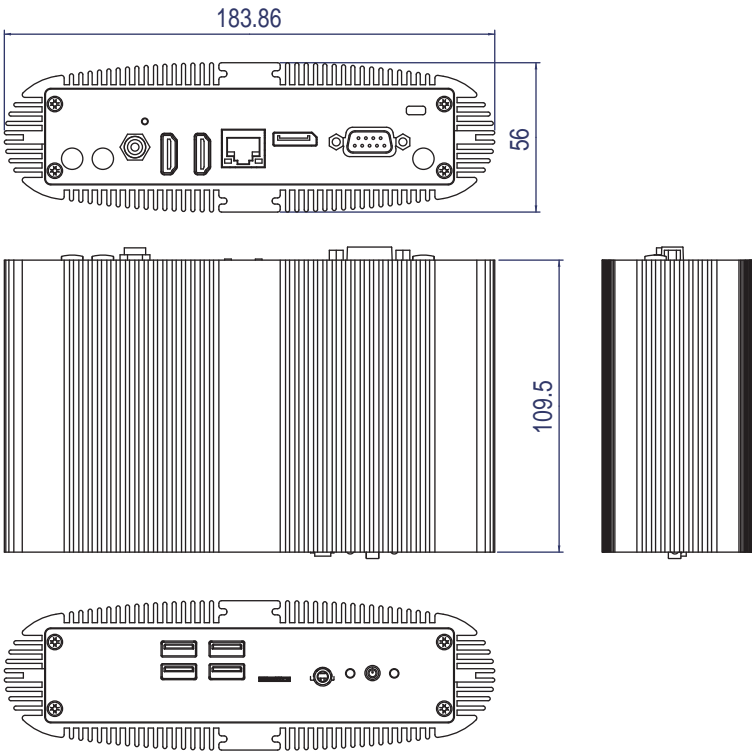
Technical Information

Processor	
	Intel® Celeron® N3160
	Quad Core, 2M Cache, up to 2.24 GHz, FCBGA1170, 6W TDP
Memory	
	2x DDR3L 1600 SO-DIMM up to 8GB
Graphics Controller	
	Intel® HD Graphics 400 (integrated)
Display Interfaces	
	2x HDMI (on rear, 3840x2160 @ 30Hz or 2560x1600 @ 60Hz)
	1x DP (on rear, 3840x2160 @ 30Hz or 2560x1600 @ 60Hz)
Multiple Display	
	Triple
Audio Chipset	
	Realtek ALC662
Audio Interfaces	
	1x Line-out/Mic-in (on front)
Ethernet	
	1x LAN (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
	1 x Micro SD Card Cage (on front)
	1x mPCIe (full size)
	1x SIM card slot (optional)
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 Botton 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	
	Aluminum Chassis
Dimension (W x D x H)	
	183.86 x 109.5 x 56 mm / 7.24" x 4.31" x 2.20"
Weight	
	1600 g / 3.53 lb
Environmental Characteristics	
	Operating Temperature: 0°C ~ 50°C / 32°F ~ 122°F (Standard)
	-20°C ~ 70°C / -4°F ~ 158°F (Extended)
	Storage Temperature: -20°C ~ 80°C / -4°F ~ 176°F
	Humidity: 0% ~ 90%
Mounting	
	VESA Mount
Security	
	1x Kensington Security Slot (on rear)
Certification	
	CE, FCC Class A

QBOX-2800 Series I/Os

Front panel: USB3.0, Wireless LED, Power Button w/ LED, Storage LED, Micro SD Card Cage, Line-out/Mic-in

Rear panel: 3G/4G Antenna, COM, DP, LAN, HDMI, DC Jack, Wi-Fi Antenna, K Lock, Reset Button

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Mechanical Dimensions

183.86

56

109.5

Ordering Information

Article	Part No.	Description
QBOX-2800		Intel® Celeron® Quad Core N3160 SoC Processor, 2x DDR3L SO-DIMM, 2x HDMI, 1x DP, 1x LAN, 4x USB3.0, 1x COM, 1x mPCle, Op. temp.: 0℃ ~ 50℃
QBOX-2800T		Intel® Celeron® Quad Core N3160 SoC Processor, 2x DDR3L SO-DIMM, 2x HDMI, 1x DP, 1x LAN, 4x USB3.0, 1x COM, 1x mPCle, Op. temp.: -20℃ ~ 70℃

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