

RAK-100S Series

1U Rack-mountable Industrial Box PC
with Intel® Skylake / Kaby Lake S-Series Processors



- Intel® Skylake-S / Kaby Lake-S Processors (LGA1151 Socket)
- Intel® Q170 Chipset
- 2x DDR4 SO-DIMM Socket
- 1x DVI-D, 2x DP for video output
- 2x GbE LAN for Ethernet
- 4x USB3.0, 4x USB2.0, 2x RS-232/422/485 for peripherals
- Up to 4x 2.5" SATA HDD/SSD or 1x 3.5" SATA HDD, up to 2x mSATA for storage
- RAID 0 / 1 / 5 / 10 support
- Up to 2x mPCIe, 2x accessible PCIe8 slot for expansion
- 1U Rack-mountable design



Product Overview

RAK-100S Series is an industrial-purpose box PC powered by Intel®'s latest powerful 6th / 7th Generation Skylake / Kaby Lake S-Series Processors. It is compatible with 1U rackmount configurations and allows users to integrate it within a rack cabinet.

Having 4x USB3.0, 4x USB2.0 and 2x RS-232/422/485, it provides a large number of interfaces to peripherals. In addition, up to 4x 2.5" SATA HDD/SSD or 1x 3.5" SATA HDD, 2x mSATA / mPCIe and 2x PCIe8 slot on rear make it flexible in storage and expansion.

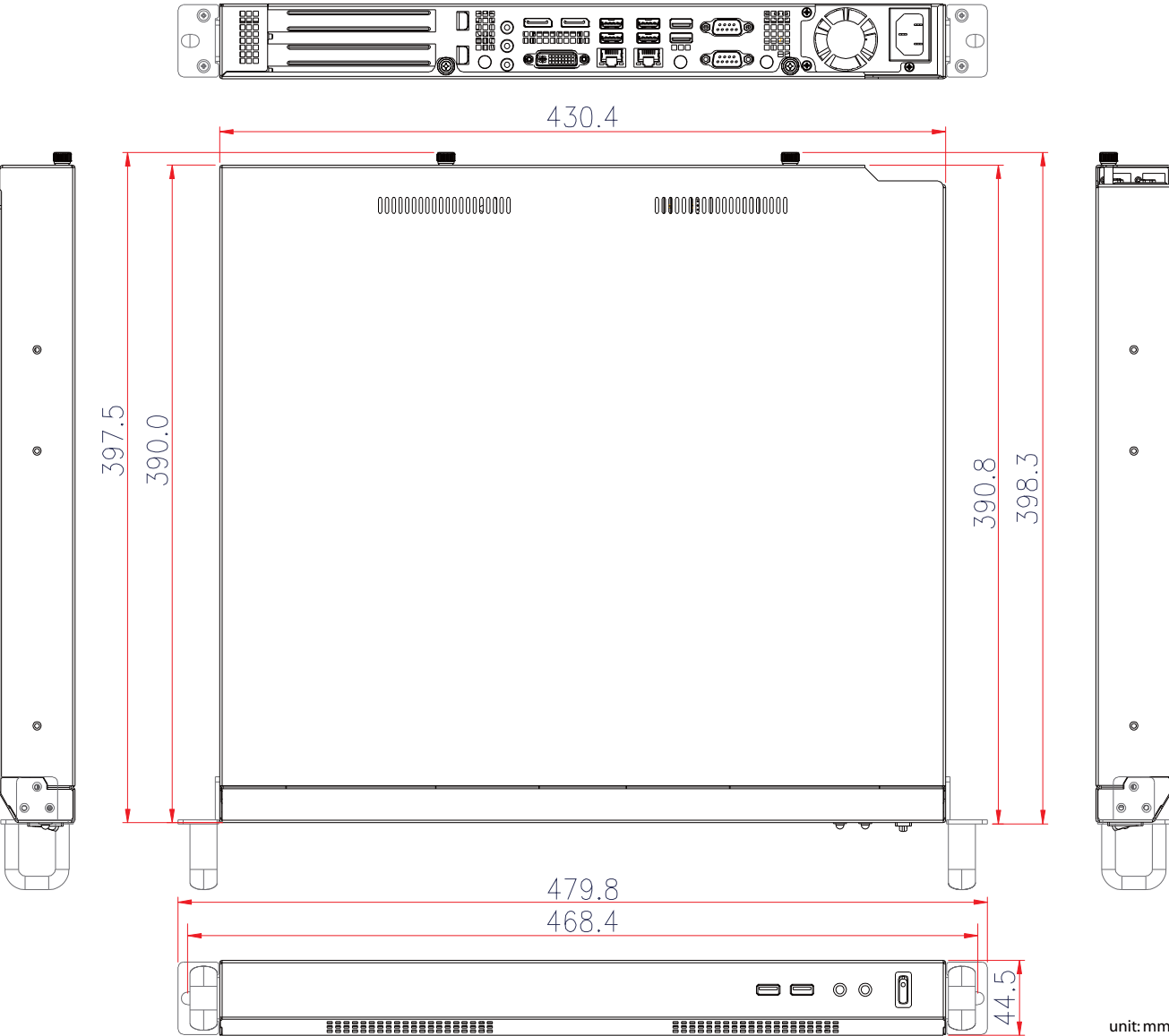
Technical Information

CPU Support	Intel® Skylake S-Series Processors (FCLGA1151 Socket) Intel® Kaby Lake S-Series Processors (FCLGA1151 Socket)
Chipset	Intel® Q170
Memory	2x DDR4 1866/2133 SO-DIMM up to 32GB
Graphic Controller	Intel® HD Graphics 510 / 530 (for models w/ Skylake-S CPUs) Intel® HD Graphics 610 / 630 (for models w/ Kaby Lake-S CPUs)
Display Interfaces	1x DVI-D (on rear, 2560 x 1600 @ 60Hz) 2x DP (on rear, 4096 x 2304 @ 60Hz)
Multiple Display	Triple
Audio Chipset	Realtek ALC662
Audio Interfaces	1x Line-in (on rear) 1x Line-out (on rear) 1x Mic-in (on rear)
Ethernet	2x GbE LAN (RJ-45 on rear, 1x Intel® I219-LM, 1x Intel® I210-AT)
USB	4x USB3.0 (Type A on rear) 4x USB2.0 (2x Type A on front, 2x Type A on rear)
Serial Ports	2x RS-232/422/485 (DB9 on rear)
Storage & Expansion	up to 4x 2.5" SATA HDD / SSD (w/ RAID 0/1/5/10 support) or 1x 3.5" HDD 2x mSATA / mPCIe (1x full size, 1x half size) 2x PCIe8 Slot (on rear) 1x SIM Card Cage (by cable, optional)
Power Supply	Connector: C14 AC Power Connector (on rear) Input Voltage: AC 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: Chipset integrated RTC TPM: Yes (Infineon SLB 9665 TPM 2.0) iAMT: depending on processor
System Control & Monitoring	1x Power Switch (on front) 1x Power LED (on front) 1x Storage LED (on front)
Cooling	Active
OS Support	Windows 7 (Skylake only), Windows 8 (Skylake only), Windows 10, Linux
Construction	1U Rackmount Metal Chassis
Dimensions (W x D x H)	430.4 x 390 x 44.5 mm / 16.94" x 15.35" x 1.75" (without handles) 479.8 x 390.8 x 44.5 mm / 18.89" x 15.39" x 1.75" (with handles)
Weight	5800 g / 12.79 lb
Environmental Characteristics	Operation Temp.: 0°C ~ 40°C / 32°F ~ 104°F Storage Temp.: -20°C ~ 80°C / -4°F ~ 176°F Humidity: 0% ~ 90%
Mounting	Rackmount
Certification	CE, FCC Class A

Front & Rear I/O Panels



Mechanical Dimensions



Ordering Information

Article	Description
RAK-100S	Intel® Skylake S-Series Processors, Intel® Q170, 1x DVI-D, 2x DP, 2x GbE, 4x USB3.0, 4x USB2.0, 2x RS-232/422/485, 2x mSATA/mPCIe, 2x PCIe8, up to 4x 2.5" HDD/SSD or 1x 3.5" HDD, w/ RAID
RAK-110S	Intel® Kaby Lake S-Series Processors, Intel® Q170, 1x DVI-D, 2x DP, 2x GbE, 4x USB3.0, 2x USB2.0, 2x RS-232/422/485, 2x mSATA/mPCIe, 2x PCIe8, up to 4x 2.5" HDD/SSD or 1x 3.5" HDD, w/ RAID