RAK-130S
IDEAL FOR WALL-MOUNT RACKS OR CABINETS

▼

1U SHORT-DEPTH RACKMOUNT SERVER PC WITH INTEL® COFFEE LAKE S-SERIES PROCESSORS

▶ 2x DP, 1x HDMI for display output
▶ 3x GbE LAN for Ethernet
▶ 6x USB 3.1, 2x RS232/422/485 for peripheral connection
▶ 2x 2.5" SATA 3.0 HDD / SSD support
▶ 2x accessible PCIe x16 slot (x8 signal), 1x M.2 Key A, 1x M.2 Key B, 1x M.2 Key M

RAK-130S
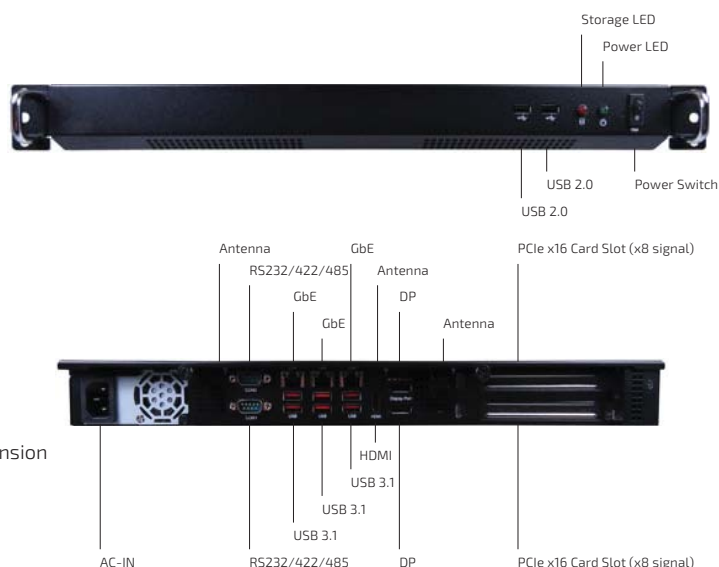### 1U SHORT-DEPTH RACKMOUNT SERVER WITH INTEL® COFFEE LAKE S-SERIES PROCESSORS

RAK-130S is a 1U rackmount server powered by Intel® Coffee Lake S-Series Processors. The short-depth design allows it to be installed in the space-saving wall-mount racks or cabinets.

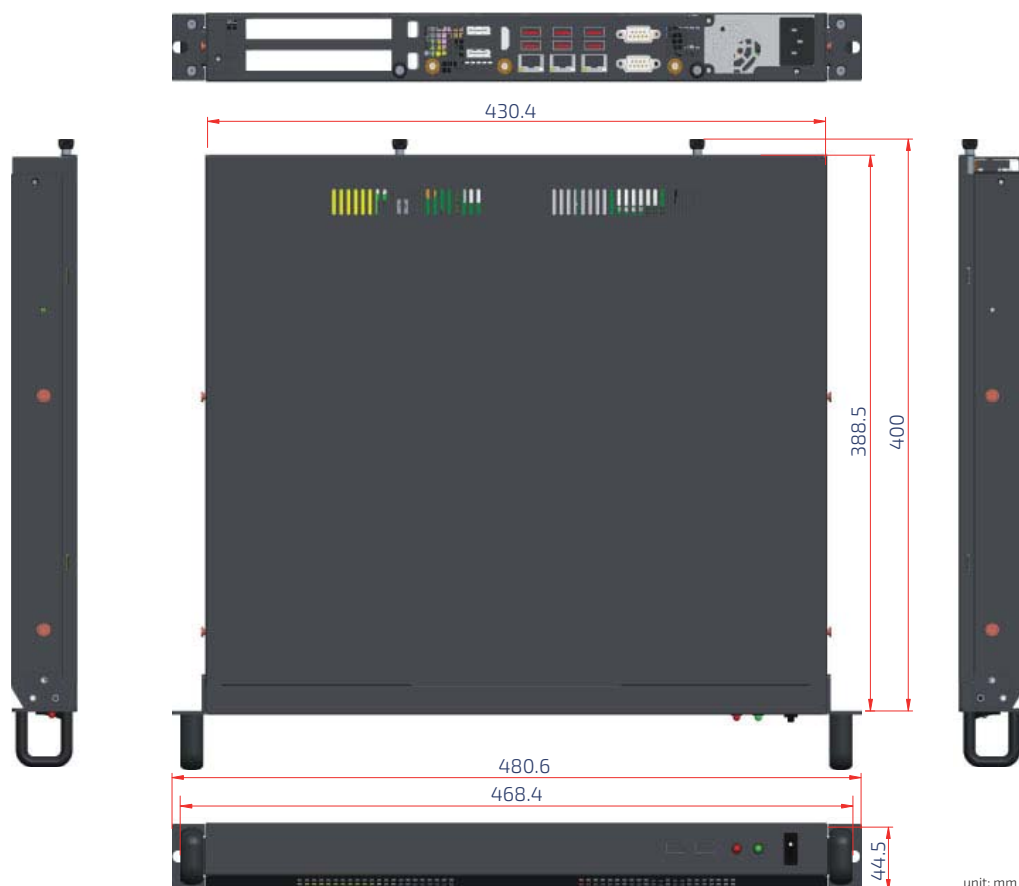The server features flexible network, storage and expansion configuration, including three GbE LAN ports for flexibly allocate network resource, two 2.5" SATA 3.0 HDDs / SSDs support for storage, three M.2 sockets for SSD / WLAN / WWAN expansion, and two accessible PCIe x16 slots (x8 signal support) for application-specific expansion.

▶ PRODUCT HIGHLIGHTS

- ▶ Intel® Coffee Lake S-Series Processors (LGA1151 Socket)
- ▶ Intel® C246 / Q370 Express Chipset
- ▶ 2x DDR4 U-DIMM memory socket (ECC support)
- ▶ 2x DP, 1x HDMI for video output
- ▶ 3x GbE LAN for Ethernet
- ▶ 6x USB 3.1, 2x USB 2.0 for USB device connection
- ▶ 2x RS232/422/485 for serial device connection
- ▶ 2x 2.5" SATA 3.0 HDD / SSD support
- ▶ 1x M.2 Key A for WLAN expansion
- ▶ 1x M.2 Key B for SSD / WWAN expansion
- ▶ 1x M.2 Key M for SSD storage
- ▶ 2x accessible PCIe x16 (x8 signal) for application-specific expansion
- ▶ 1U short-depth rackmount design

Storage LED
Power LED
USB 2.0
USB 2.0
Power Switch

Antenna
RS232/422/485
GbE
GbE
GbE
Antenna
DP
Antenna
PCIe x16 Card Slot (x8 signal)
HDMI
USB 3.1
USB 3.1
USB 3.1
AC-IN
RS232/422/485
DP
PCIe x16 Card Slot (x8 signal)

▶ MECHANICAL DIMENSIONS

430.4
388.5
400
480.6
468.4
44.5
unit: mm

▶ TECHNICAL INFORMATION

SYSTEM	**PROCESSOR**	Intel® Coffee Lake-S Core™ i CPUs (LGA1151 socket)
		Intel® Coffee Lake-S Xeon® E CPUs (LGA1151 socket)
	CHIPSET	Intel® C246 (Xeon® E & Core™ i CPU)
		Intel® Q370 (Core™ i CPU)
	MEMORY	2x DDR4 2400/2666 U-DIMM memory socket (ECC support)
VIDEO	**GRAPHICS**	Intel® UHD Graphics P630 (Xeon® E CPU)
		Intel® UHD Graphics 630 (Core™ i CPU)
	DISPLAY INTERFACE	2x DP (on rear, 4096 x 2304 @ 60 Hz)
		1x HDMI 1.4 (on rear, 4096 x 2160 @ 24 Hz / 2560 x 1600 @ 60 Hz)
	MULTIPLE DISPLAY	Triple
NETWORK CONNECTION	**ETHERNET**	3x GbE LAN (RJ45 on rear, 1x Intel® I219-LM, 1x Intel® I210-AT, 1x Intel® I211-AT)
PERIPHERAL CONNECTION	**USB**	6x USB 3.1 (Type A on rear)
		2x USB 2.0 (Type A n front)
	SERIAL PORT	2x RS232/422/485 (DB9 on rear)
STORAGE & EXPANSION		2x 2.5" SATA 3.0 HDD / SSD
		1x M.2 Key M (type 2280, mixed w/ PCIe x4)
		1x M.2 Key A (type 2230, mixed w/ PCIe x1 & USB 2.0)
		1x M.2 Key B (type 2242, mixed w/ PCIe x1, SATA 3.0 & USB 3.1)
		2x PCIe x16 Slot (x8 signal, accessible on rear)
		1x SIM Card Cage (by cable, optional)
POWER	**CONNECTOR**	C14 AC Power Connector (on rear)
	INPUT VOLTAGE	AC 100 V ~ 240 V
FIRMWARE	**BIOS**	AMI uEFI BIOS w/ 128 Mb 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	Supported (Infineon SLB 9665 TPM 2.0)
SYSTEM CONTROL & MONITORING	**BUTTON, SWITCH & INDICATOR**	1x Power Switch (on front)
		1x Power LED (on front)
		1x Storage LED (on front)
COOLING	**COOLING METHOD**	Active
SOFTWARE	**OS SUPPORT**	Windows 10 (Core™ i CPU)
		Windows Server (Xeon® E CPU)
		Linux (Core™ i CPU)
MECHANICAL	**CONSTRUCTION**	1U Metal Rackmount Chassis
	DIMENSIONS (W x D x H)	430.4 mm x 400 mm x 44.5 mm / 16.94" x 15.75" x 1.75" (without handles)
		480.6 mm x 439 mm x 44.5 mm / 18.92" x 17.28" x 1.75" (with handles)
	WEIGHT	TBD
	MOUNTING	Rackmount
ENVIRONMENTAL	**OPERATION TEMPERATURE**	0 °C ~ 40 °C / 32 °F ~ 104 °F
	STORAGE TEMPERATURE	-20 °C ~ 80 °C / -4 °F ~ 176 °F
	HUMIDITY	0 % ~ 95 %
CERTIFICATION	**EMC & SAFETY**	CE, FCC Class B