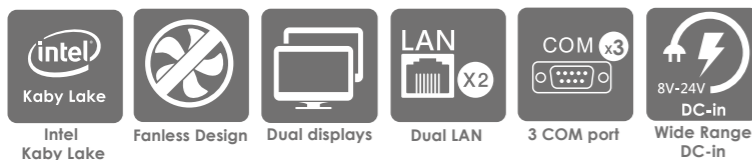


S310-11KS

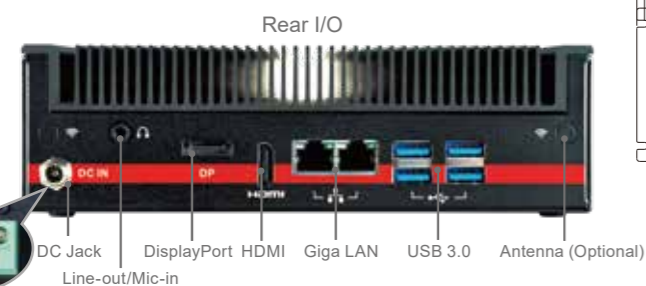
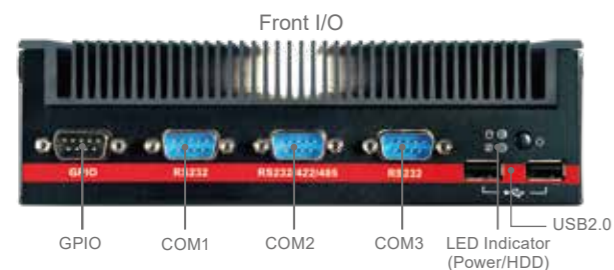
Fanless Embedded System
with Intel® Kabylake/Skylake Processor (up to 3.9GHz)

Introduction

- Intel® Tiger Lake-UP3 Core i7/i5/i3/Celeron ULV processors
- Intel® vPro technology support
- 1 x DDR4 SO-DIMM and support up to 32GB
- Support Dual display for HDMI, and DisplayPort
- 1 x Hot Swappable SSD/HDD slot
- 2 x Intel® Gigabit Ethernet
- 2 x USB 2.0, 4 x USB 3.1 Gen2 and 3 x COM
- 8V~24V wide voltage power input

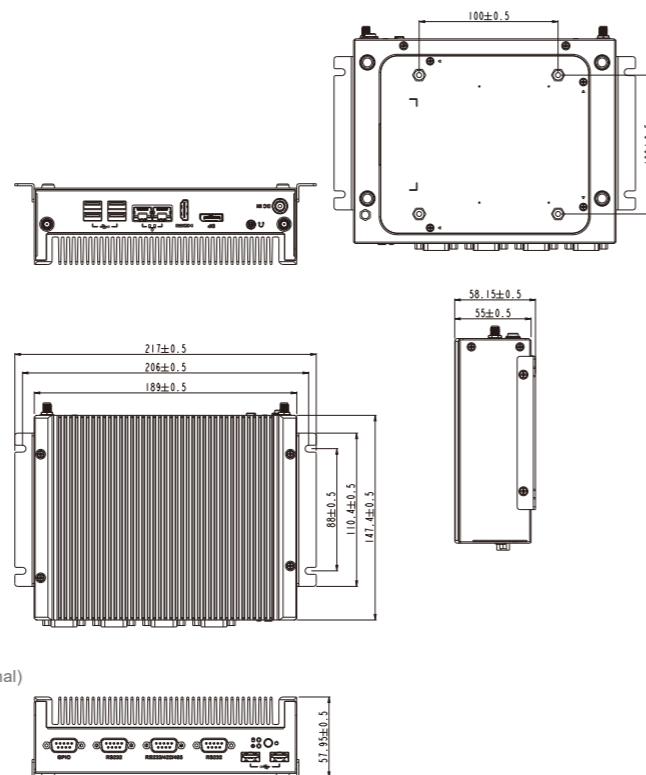


I/O Interface



Terminal Block (Optional)

Dimension (mm)



S310-11KS Fanless Embedded System

SYSTEM	
CPU	7th Gen Kabylake Intel® Core™ i ULV Processor (Default: i3-7100U; Compatible with i7-7600U, i5-7300U, Celeron 3965U) Option: 6th Gen Skylake Intel® Core™ i ULV Processor (Compatible with i7-6600U, i5-6300U, i3-6100U, Celeron 3955U)
Chipset	Intel® SoC Integrated
System Memory	DDR4 2133/2400, 2 x 260-pin SO-DIMM, Max. 32 GB (Non-ECC)
Graphics	Intel® HD Graphics
Display Interface	DisplayPort 1.2, HDMI 1.4
Storage Slot	1 x 2.5 HDD/SSD (Default w/SATA and SATA Power Cable in Accessories) 1 x mSATA
Ethernet	Intel® I219LM Giga LAN + I211AT Giga LAN
Audio	Realtek ALC28 / ALC256
I/O Chipset	Nuvoton NCT6104D
TPM	Nuvoton NPCT650ABCYX TPM2.0
Expansion Slot	Storage: Mini PCIe Full size (USB / PCIe / SATA) Wireless: M.2 2230 E key (PCIe / USB)
Indicator	Power LED, HDD LED GPIO 8-bit (DB9 Connector)
Front I/O	2 x RS232 1 x RS232/422/485 2 x USB 2.0 1 x DC Jack 1 x Audio Combo Jack (Mic-in & Line-out)
Rear I/O	1 x DisplayPort 1.2 1 x HDMI 1.4 2 x RJ-45 4 x USB 3.0 2 x SMA Antenna (Optional for WiFi function)
H/W Monitor	Temperature Monitor, Voltage Monitor
Watchdog Timer	1~255 Steps by Software Program
POWER REQUIREMENT	
Power Input	8~24V Wide Range DC-in Jack Connectivity (Default)
Power Adapter	8~24V Wide Range DC Input w/ Terminal Block Connectivity (Optional) AC to DC, DC19V/3.4A, 65W adapter
MECHANICAL	
Thermal Design	Fanless
Mounting	100mm x 100mm VESA holes / Wallmount Kit (Default in Accessories) 100mm x 100mm VESA Mount Kit (Optional)
Dimensions (W X D X H)	7.4" x 5.8" x 2.2" (189.0mm x 147.4mm x 55.0mm)
Material	Top cover: Aluminum Alloy, Bezel and chassis: Steel
ENVIRONMENTAL	
Operating Temperature	-10~50°C with 0.7m/s Air Flow (w/Extended Temp. SSD / mSATA / RAM) 0~40°C with 0.7m/s Air Flow (w/Standard Temp.)
Storage Temperature	-20~80°C
Operating Humidity	10%~90% (Non-condensing)
Vibration Resistance	5Hz~500Hz / 2Grms / 3Axis (Non-operating)
Shock Resistance	120G, 2ms Duration (Non-operating)
Certification	CE & FCC
OS	
OS Support	Kaby Lake-U: Windows® 10, Linux support by request Skylake: Windows® 10, Windows® 7, Linux (support by request)

Ordering Information

Model Number	Processor	Power	Model Number	Processor	Operating Temperature
S310-11KS-3965U	Celeron 3965U	8~24V DC Jack	S310-11KS-7300U	i5-7300U	8~24V DC Jack
S310-11KS-7100U	i3-7100U	8~24V DC Jack	S310-11KS-7600U	i7-7600U	8~24V DC Jack

Packing List

Packing		
• 1 x Wall Mount Brackets (2PCS in 1 set)	• 1 x Quick Installation Guide	• 1 x Embedded System
• 1 x 11 cm SATA Cable	• 1 x Power Adapter (19V, 65W, DC Jack Type)	• 1 x US + EU Power Cord
• 1 x 25 cm SATA Power Cable		