









S310-11KS

Fanless Embedded System with Intel KabyLake/Skylake Processor
(up to 3.9GHz), 1 x HDMI, 1 x DP, 2 x GbE LANs
6 x USB, 3 x COM, 8 x GPIO, and with 8~24V DC-in.

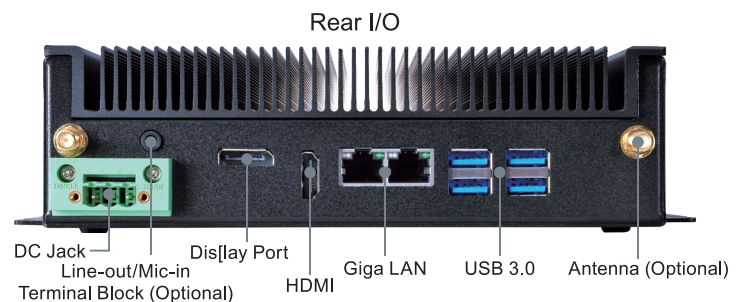
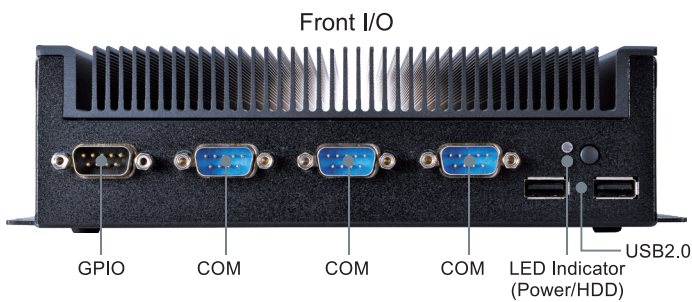


 Intel Kaby Lake	 Fanless Design	 Dual displays	 Dual LAN	 3 COM port	 HDD	 8V-19V	 Full Regulation
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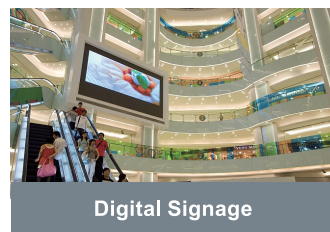
Introduction

S310-11KS is a fanless embedded system, powered by the 7th gen KabyLake-U performance-enhanced processor. The whole system is 1.5 liter size but still with versatile I/O aiming to adapt it in different environments and wide applications.

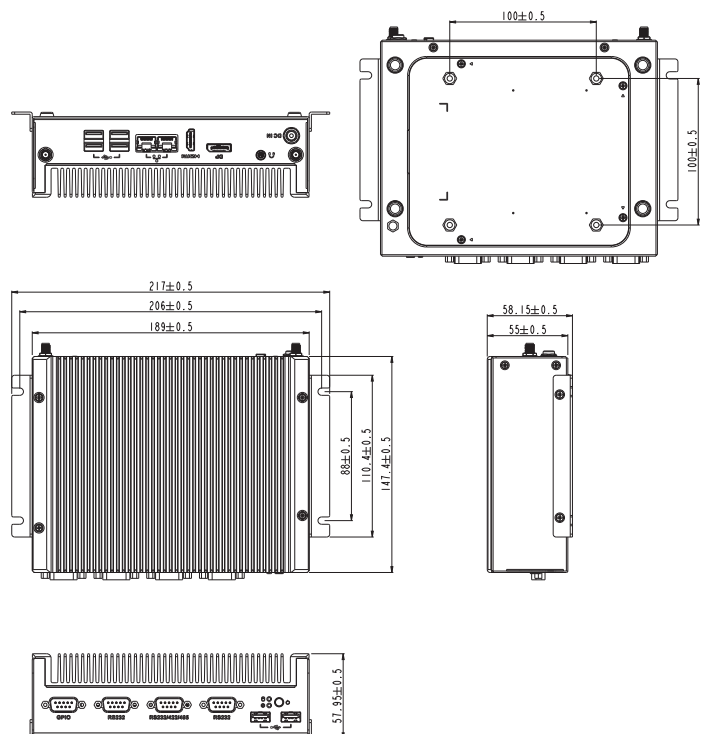
I/O Interface



Application



Dimension (mm)



S310-11KS

Compact Fanless Embedded System

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 ALC283
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
Front I/O	GPIO 8-bit (DB9 Connector) 2 x RS232 1 x RS232/422/485 2 x USB 2.0
Rear I/O	1 x DC Jack 1 x Audio Combo Jack (Mic-in and Line-out) 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) 8~24V Wide Range DC Input w/Terminal Block Connectivity (Optional)
Power Adapter	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 VES 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® 8.1, Windows® 7, Linux (support by request)

Ordering Information

Model Number	Processor	Power	Model Number	Processor	Operating Temperature	Model Number	Processor	Operating Temperature
S310-11KS-3955U	Celeron 3955U	8~24V DC Jack	S310-11KS-6600U	i7-6600U	8~24V DC Jack	S310-11KS-7300U	i5-7300U	8~24V DC Jack
S310-11KS-6100U	i3-6100U	8~24V DC Jack	S310-11KS-3965U	Celeron 3965U	8~24V DC Jack	S310-11KS-7600U	i7-7600U	8~24V DC Jack
S310-11KS-6300U	i5-6300U	8~24V DC Jack	S310-11KS-7100U	i3-7100	8~24V DC Jack			