seeed studio

INDUSTRIAL PRODUCT DATASHEET

reServer i31115(8G+256SSD/W) - Compact Edge Server powered by 11th Gen Intel® Core™ i3 1115G4(8G+256SSD/W)

The reServer i31115(8G+256SSD/W) is a compact edge server powered by 11th Gen Intel® Core™ i3-1115G4, designed for small office, industrial automation, robotics, healthcare, smart agriculture, and NAS applications.

SKU	UPDATED
B102110559	2024-08-09 02:43:07



Overview



The reServer i31115(8G+256SSD/W) is a compact edge server featuring an 11th Gen Intel® Core™ i3-1115G4 processor with dual 2.5-Gigabit Ethernet and rich peripherals including HDMI and DP. It supports hybrid connectivity, dual SATA III storage, and M.2 expandability, making it suitable for small office server, industrial automation, robotics, healthcare, smart agriculture, and NAS applications.

Key Features

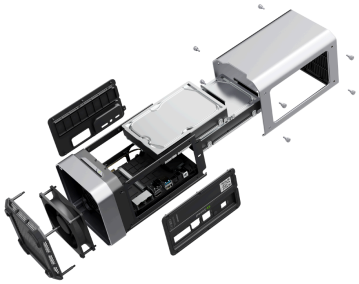
- Compact design for a server with an overall dimension of 132mm*124mm*233mm
- Powered by the latest 11th Gen Intel® Core™ i3 CPU running up to 4.10GHz and Intel UHD Graphics 48EUs running up to 1.25 GHz
- Rich peripherals including dual® 2.5-Gigabit Ethernet ports, USB 3.2 Type-A port, USB 2.0 Type-A port, HDMI port and DP port
- Support hybrid connectivity including 5G, LoRa, BLE and WiFi (5G and LoRa need additional modules)
- Dual SATA III 6.0 Gbps data connectors for 3.5”/2.5" SATA hard disk drives with enough space inside the enclosure to store them both
- M.2 B-Key/ M-Key/ E-Key for expandability such as SSD, LTE/4G/5G, WiFi 6 Modules
- Quiet cooling fan with a large VC heat sink for excellent heat dissipation
- Easy to install, upgrade and maintain with ease of access to the internal components after opening the enclosure
- Pre-installed Windows 10 Enterprise(Unactivated), also support other Windows OS and Linux OS

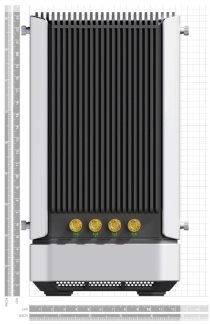
Product Gallery











Specification

Versions		Basic Versions			High Performance Versions	
Platform	Processor	Intel® Core™ 11th Gen. i3 1115G4	Intel® Core™ 11th Gen. i3 1125G4	Intel® Core™ 11th Gen. i5 1135G7	Intel® Core™ vPro® 11th Gen. i5 1145GRE	Intel® Core™ vPro® 11th Gen. i7 1185GRE
	Cores/Threads	2C/4T	4C/8T	4C/8T	4C/8T	4C/8T
	Frequency	Up to 4.10 GHz	Up to 3.70 GHz	Up to 4.20 GHz	1.50 GHz ~ 4.10 GHz	1.80 GHz ~ 4.40 GHz
	Co-processor	Microchip® ATSAMD21G18 32-Bit ARM® Cortex-M0+ @ 48MHz			Raspberry Pi® RP2040 32-Bit Dual ARM Cortex-M0+ @ 133MHz	
Memory	Technology	Dual Channels DDR4-3200				
	Capacity	Support up to 64GB				
	ECC Memory Supported	NO			YES	
Graphics	Controller	Intel® UHD Graphics 48EUs (400 - 1250MHz)	Intel® UHD Graphics 48EUs (400 - 1250MHz)	Intel® Iris Xe Graphics G7 80EUs(400-1300MHz)	Intel® Iris Xe Graphics G7 80EUs(400-1300MHz)	Intel® Iris Xe Graphics G7 96EUs(400-1300MHz)
Advanced Technologies	Intel® vPro®	NO			YES	
	Intel® Total Memory Encryption	NO			YES	
Network	Controller	Intel® Ethernet Controller I225-V			Intel® Ethernet Controller I225-LM	
Wireless	WiFi	M.2 E-Key(PCIE & CNVi Support), Intel® Wi-Fi 6 AX201(Optional)				
	Bluetooth	Bluetooth 5.0, BLE(Optional)				
Display	LCD	eDP 40-Pin 4 Lane Connector				
	HDMI	1 x HDMI 2.0b, up to 4Kx2Kx24bpp@60Hz				
	DP	1 x DP1.4a 7680x4320x24bpp@60Hz				
	Multiple Display	4 simultaneous displays with each display interface combination				
External I/O	Ethernet	2 x 2.5GbE LAN ports (RJ45, supports 10/100/1000/2500 Mbps), Intel® i225				
	HDMI/DP	One/One				
	USB Type-C	N/A			USB PD / USB 4.0 / Thunderbolt 4	
	USB Type-A	USB2.0 Type A x1 ; USB3.2 Type A x1			USB2.0 Type A x2 ; USB3.2 Type A x1	
	LED	Power Status				
	Power Supply	1x5.5x2.5mm DC Jack / Wafer 2.0mm 8pin				
	Micro Sim Card Slot	1				
Internal I/O	SATA	2 x SATA Gen III 6.0 Gb/s Data Connectors + 3 x SATA Power Connectors				
	COM Port	1 x RS-232/422/485, 1 x RS-232				
	GPIO	28-Pin Arduino Co-processor 2.54mm header			30-Pin Raspberry Pi Co-processor 2.54mm header	
	Audio	Realtek High Definition Audio, Microphone + headphone Combo Connector				
	USB2.0	USB2.0 9-pin Header x2 480Mbps				
	Fan	2 x 12V 4-wire Fan header, PWM Control				
	Front Panel Control	Power-on, Reset, Power Status LED, SATA Status LED				
	S/PDIF	3-Pin 2.54mm Header				
	SATA Power	WAFER4-Pin 2.0 pitch Connector				
	Co-CPU. Debug Port	6-Pin 0.5mm FPC Connector (SWD)				

Versions		Basic Versions	High Performance Versions
Expansion	M.2 M-Key	1 x M-Key 2242/2280(PCIe 3.0 x4)	
	M.2 E-Key	1 x E-Key 2230(PCIe 3.0 x1; USB2.0 x1;Intel CNVi)	
	M.2 B-Key	1 x B-Key2242/2252/2280(PCIe 3.0 x2; USB2.0 x1)	
	High Speed I/O	1 X PCIe x4 Gen4	1 X PCIe 3.0 x4/SMBus/LPC/USB 2.0/CPU GPIO etc.
Power	Supply Voltage	DC Jack: 12V	DC Jack: 12V-19V
	RTC Battery	Lithium 3V/210mAH	
Feature	TPM	Support	
	Secure Boot	Support	
Certification	EMC	CE,FCC,TELEC	
Mechanical	Dimension	124mm*132mm*233mm	
	Thermal Solution	Heat Pipe Assemblies/Heat Spreading Vapor Chamber Assemblies	
	Weight	1800g	

Applications

- **Small office, home office server**
- **Industrial Automation**
- **Robotics**
- **Healthcare**
- **Smart Agriculture**
- **NAS**

Part List

Versions		Basic Versions			High Performance Version	
Platform	Processor	Intel® Core™ 11th Gen. i3 1115G4	Intel® Core™ 11th Gen. i3 1125G4	Intel® Core™ 11th Gen. i5 1135G7	Intel® Core™ vPro® 11th Gen. i5 1145GRE	Inte vPr 1185
	Cores/Threads	2C/4T	4C/8T	4C/8T	4C/8T	4C/
	Frequency	Up to 4.10 GHz	Up to 3.70 GHz	Up to 4.20 GHz	1.50 GHz ~ 4.10 GHz	1.80 GH
	Co-processor	Microchip® ATSAMD21G18 32-Bit ARM® Cortex-M0+ @ 48MHz			Raspberry Pi® RP2040 32- Cortex-M0+ @ 133MHz	
Memory	Technology	Dual Channels DDR4-3200				
	Capacity	Support up to 64GB				
	ECC Memory Supported	NO			YES	
Graphics	Controller	Intel® UHD Graphics 48EUs (400 - 1250MHz)	Intel® UHD Graphics 48EUs (400 - 1250MHz)	Intel® Iris Xe Graphics G7 80EUs(400-1300MHz)	Intel® Iris Xe Graphics G7 80EUs(400-1300MHz)	Inte Gra 96E 130
Advanced Technologies	Intel® vPro®	NO			YES	
	Intel® Total Memory Encryption	NO			YES	
Network	Controller	Intel® Ethernet Controller I225-V			Intel® Ethernet Controller	
Wireless	WiFi	M.2 E-Key(PCIE & CNVi Support), Intel® Wi-Fi 6 AX201(Optional)				
	Bluetooth	Bluetooth 5.0, BLE(Optional)				
Display	LCD	eDP 40-Pin 4 Lane Connector				
	HDMI	1 x HDMI 2.0b, up to 4Kx2Kx24bpp@60Hz				
	DP	1 x DP1.4a 7680x4320x24bpp@60Hz				
	Multiple Display	4 simultaneous displays with each display interface combination				
External I/O	Ethernet	2 x 2.5GbE LAN ports (RJ45, supports 10/100/1000/2500 Mbps), Intel® i225				
	HDMI/DP	One/One				
	USB Type-C	N/A			USB PD / USB 4.0 / Thund	
	USB Type-A	USB2.0 Type A x1 ; USB3.2 Type A x1			USB2.0 Type A x2 ; USB3.2	
	LED	Power Status				
	Power Supply	1x5.5x2.5mm DC Jack / Wafer 2.0mm 8pin				
	Micro Sim Card Slot	1				
Internal I/O	SATA	2 x SATA Gen III 6.0 Gb/s Data Connectors + 3 x SATA Power Connectors				
	COM Port	1 x RS-232/422/485, 1 x RS-232				
	GPIO	28-Pin Arduino Co-processor 2.54mm header			30-Pin Raspberry Pi Co-pr 2.54mm header	
	Audio	Realtek High Definition Audio, Microphone + headphone Combo Connector				
	USB2.0	USB2.0 9-pin Header x2 480Mbps				
	Fan	2 x 12V 4-wire Fan header, PWM Control				
	Front Panel Control	Power-on, Reset, Power Status LED, SATA Status LED				
	S/PDIF	3-Pin 2.54mm Header				
	SATA Power	WAFER4-Pin 2.0 pitch Connector				
	Co-CPU. Debug Port	6-Pin 0.5mm FPC Connector (SWD)				
Expansion	M.2 M-Key	1 x M-Key 2242/2280(PCIe 3.0 x4)				

Versions		Basic Versions	High Performance Version
	M.2 E-Key	1 x E-Key 2230(PCIe 3.0 x1; USB2.0 x1;Intel CNVi)	
	M.2 B-Key	1 x B-Key2242/2252/2280(PCIe 3.0 x2; USB2.0 x1)	
	High Speed I/O	1 X PCIe x4 Gen4	1 X PCIe 3.0 x4/SMBus/LPC GPIO etc.
Power	Supply Voltage	DC Jack: 12V	DC Jack: 12V-19V
	RTC Battery	Lithium 3V/210mAH	
Feature	TPM	Support	
	Secure Boot	Support	
Certification	EMC	CE,FCC,TELEC	
Mechanical	Dimension	124mm*132mm*233mm	
	Thermal Solution	Heat Pipe Assemblies/Heat Spreading Vapor Chamber Assemblies	
	Weight	1800g	

Compliance & Logistics

HSCODE	8471419000
UPC	

Resource Links

- https://www.seeedstudio.com/reServer-Compact-Edge-Server-powered-by-11th-Gen-Intelr-Coretm-i3-i5-p-5057.html

Seeed Technology Co.,Ltd.
9F, Building G3, International E City,
Zhongshanyuan Road, Nanshan, Shenzhen, China

Tel: +86 0755-80695676
Web: www.seeed.cc
Shop: www.seeedstudio.com