seeed studio

INDUSTRIAL PRODUCT DATASHEET

reServer i31115(16G+512SSD/W) - Compact Edge Server powered by 11th Gen Intel® Core™i3 1115G4 (16G+512SSD/W)

Compact edge server powered by 11th Gen Intel® Core™ i3 with rich I/O and expandability for diverse edge applications.

SKU	UPDATED
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Overview



The reServer i31115 is a compact edge server featuring an 11th Gen Intel® Core™ i3-1115G4 CPU, 16GB memory, and 512GB SSD, with dimensions of 132mm x 124mm x 233mm. It offers dual 2.5-Gigabit Ethernet ports, hybrid connectivity (5G, LoRa, BLE, WiFi), dual SATA III connectors, and M.2 expansion slots, making it suitable for small office/home office server, industrial automation, 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

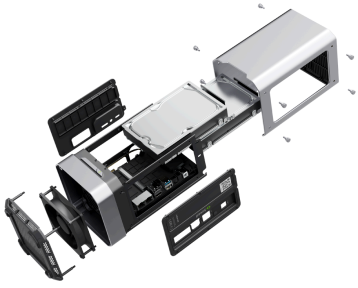
Product Gallery











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-Intel-Coretmi3-1115G4-16G-512SSD-W-p-5056.html

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