reServer User Manual

Getting Started with reServer



reServer is based on an ODYSSEY X86 v2 board and powered by the latest Intel® Core™ 11th Gen. processor and Intel® UHD Graphics or Intel® Iris Xe Graphics, which delivers high CPU and AI performance for various applications. It has two high-speed 2.5-Gigabit Ethernet ports and supports hybrid connectivity including BLE and WIFI. Meanwhile, reServer is of compact design to work efficiently in almost any scenario. The neat structure of reServer also makes it simple to access to the hard drives, memory and PCIe slots which allows easy installation, upgrades and maintenance.

Having dual SATA III 6.0Gbps data connectors, reServer is able to equip up to two 3.5"/2.5" SATA internal hard disk drives to acquire more storage. It also has M.2 connectors to connect to various SSDs for faster read and write speeds.

Features

 Powered by the latest 11th Gen Intel® Core™ CPU and Intel® UHD Graphics or Intel® Iris Xe Graphics.



- 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 BLE and WIFI
- 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
- Pre-installed Windows 10 Enterprise (Unactuated), also support another Windows OS and Linux OS

Specification

Versions		Detail				
Parton	Processor	Heart Cove" 13M Gen 13 111304	Artest Cover 11m Gen. (5 113964	imelf Core** 11m Gen. 6 1135G7		
	Co-processor	Microshy* ATSAMOZIGER 32 Bit ARM* Corpor Mith- @ 4004nic				
Nemory	Technology	Dual Chammert 0064-3200				
	Capacity	AGB; 16GB (Support sp.10-54GB)				
	ECC Memory Supported	10				
Grantes	Controller	1990 - 1250MHz	HIGH LIND GRAPHUS FRESTS (400 - 1250Web)	Intel® Into Xe Graphics G7 800 Jul 400-1300MHz)		
	Linder Vision	N2				
Advanced Technologies	Memory Encryption	160				
Network .	Controller	Intel® Ethernet Committee 1225-V				
Name of the last o	Wh	M 2 E Keyl FCE & CNV Supports, Intel® Wi-F1 AX2010[SminNt]				
Wireless	Diserment	Disenterin S.G. BLE(Consume)				
PLEAN.	uco	eOF 40-Pin 4 Lane Connector				
	HDMI	1 x HDMI 2.0s, up to 44x24x24bpo@60Hz				
Display	DF	1 x DF1.4x Y680x4520x34bpp@60Hs				
	Wurtiple Display	4 pinutanessa sinutaya saith each sinyaay interface combination				
boene yo	Ethernet	2 x 2.5GnE LAN ports (RIAS, expones 18/100/3000/7500 Minos), intel® 025				
	HDM/DF	Dis/One				
Beenway 170	Util Type-C	NX.				
	USB Type 4	US83.0 Type A x3 , US83.3 Type A x3				
	100	Power Statute				

Between UTO	USE Type-C	NA .	
	USS Type 4	US83.0 Type A x3 , US85.3 Type A x3	
	100	Paner Status:	
	Forer Supply	3x5 Sx2 Serve DC task / Wafer 3 Serve April	
	Mecro Simi Carill Stor.	1	
	5404	2 x SATA Gen III 6.0 Utijs Onto Connectors + 5 x SATA Power Connectors	
	CDM Furt	1 x 45-212/422/485, 1 x 85-212	
	640	26 Fin Antures Corprotessor 2 S4non header	
	Audio	Resident High Definition Audio, Microphore + Inselphone Contac Connector	
	UNKS 0	USBI D F-pm Hander of 480Mbps	
(O) Senses	Fen	Z is 12V 4-vivre han hearing, PARM Control	
	Frank Panel Corenal	Power-on, Reset, Power Status LED, SASA Status LED	
	5/90#	9-Po 154no Header	
	SATA Fower	WAYER For 10 plack Connector	
	Co-CPU Dworg Port	G-Plo & Sent FPC Connector (SWI) (
	MIM-Kes	T + M 4 (ey 2042/2080 (Co ± 0 +4))	
0.0000000000000000000000000000000000000	M204m	I x I 46x II36//Ox 3.0 x1; USB2 II x1; mut OV//	
Digenous:	M.7 Presy	1 + B Sev(2942/2251/2390/PO+ 8 B kg; U182 B kt)	
	High Samed (JC)	1 FOr al Gast	
Power	Yugaty Writings	DC terk: 12V	
	WYC Stattery	LITTLEY SICZIONARI	
Certification	DUC	OURCACITUE	
Machenial	Determin	152mm*134mm*215mm	
	Thermal Salution	Heat Fige Assembles/Heat Spreading Vapor Chamber Assembles	
	Wegst	INTE	

Comparison

Appearance					
Processor	hmel* Core** 11th Gen. t3 1115G4	intel® Core™ 12th Gen. © 1325G4	Intel® Core® 11th Gen. (5 1155G7		
Cores/Threads	30/41	45/81	40/81		
frequency	Up to 4 10 GHz	Up to 3 70 GHz	Up to 4.20 GHz		
Co-processor	Microchig [®] ATSAM023G18 72-Bit ARM® Contex MID+ @ 48MHy				
HODER VPYOR	NO				
Intel® Total Memory Encryption	MD MD				
Graphics	Heart CHO Graphics 4851/6 (400 - 1250MHs)	Innet* LIHD Graphics 4855/s (400 - 1250MHz)	Intel® Ins Ke Graphics G7 80EUs(400-1300MHz)		
Memory	Dual Charriels DOR4-5200(Support up to 6468 in total)				
ECC Memory Supported	NO NO				
Network Controller	Intel® Ethernet Commiller (225-V				
Expansion	M.2 M-Key, M.2 B-Key, M.2 E-Key, 1.1 PCie x4 Gen4.				
External I/O	USB Type: A(USB2.0 Type: A x5.; USB8.2 Type: A x3.; HDMI; OP; 2 SGDE LAN ports x2; Ayolio Jack; DC Jack(12V);				
Wireless Connectivity	Support W.F. BLE				

Quick Start with reServer

If you want to get started with reServer in the fastest and easiest way, you can follow the guide below.

Hardware Required

You need to prepare the following hardware before getting started with reServer.

- reServer
- Power Adapter(provided)
- External monitor
- HDMI/DP cable
- Keyboard and Mouse

Hardware Installation

For this part, we will introduce how to install or replace some hardware inside reServer. If there are no needs for you, please skip it. You might follow the Assembly Guide Manual attached at the end of this page to access to the main board of

reServer before reading this part.

DDR4 Installation

DDR4-3200MT/s has been pre-installed for all versions of reServer but you can also add a new DDR4 to the other channel or replace the pre-installed one with your own to expand memory. The dual-channel SO-DIMM slots support DDR4-3200MT/s up to 64GB in total.



SSD Installation

A NV Me SSD has been pre-installed for all versions of reServer, while, still, the M.2 M-Key 2242/2280(PCIe 3.0 x4) allows you to replace it with the SSD you desire.



WIFI Module Installation

All versions of reServer have installed 2230 Dual Band WIFI AX201 Module at M.2 E-Key 2242/2280(PCle 3.0x4). If you want to replace the pre-installed WIFI Module, feel free to follow the steps below.

Step 1. Remove the SSD from M.2 M-Key slot.

Step 2. Take off the WIFI antenna cable and remove the pre-installed WIFI Module from M.2 E-Key.



Step 3. Install the new WIFI Module and connect the WIFI antenna cable back to it.

Step 4. Install the SSD back to M.2 M-Key.



Note: reServer is shipped with two 2.4/5 GHz WiFi Antennas, you can attach the antenna to the adapter which connects with the antenna cable of the WiFi module inside the reServer to achieve better WiFi connectivity.



HDD Installation¶

reServer supports installing two 3.5"/2.5" internal hard disk drives to acquire more

storage. (The HDDs are not included in reServer) Please follow the steps to install the HDDs.

- Step 1. Remove the screws and pull out the brackets
- Step 2. Attach the HHDs to the brackets with screws
- Step 3. Push the HDD brackets down to connect the HHDs with the SATA ports.

Step 4. Fix the HDD brackets with screws



Hardware Connection

For this part, we will introduce the interface connection of reServer. There are two versions of reServer. Please note that different versions might have different interfaces.

Display Connection

There are three methods for reServer to connect to a display while the third method is only for High-performing versions.

Method 1. HDMI Port、

Method 2. DP Port

Keyboard and Mouse Connection

Connect keyboard and mouse through USB ports. There are one USB 3.2 port and

one USB 2.0 port for Basic versions while there are one USB 3.2 port and two USB

2.0 ports for High-performing versions. Basic version

Audio Connection

For Basic versions, the Audio Jack is on the left side I/O panel, while, for High-

performing versions, it's on the right side I/O panel for High-performing versions

Power Connection

There are two methods to power up reServer, and the second one is only for High-

performing versions.

Method 1. Simply connect AC-DC power adapter (included in the product box) with

AC power cord (Out of the product box but still in the package), then connect it to

12V DC Jack of reServer.

Method 2. Connect USB Type-C charging cable (Not included in reServer) to the

Thunderbolt 4 USB Type-C port (This port is only available with High-performing

versions)

Operation System Installation

For all versions of reServer, Windows 10 Enterprise (Unactuated) has been pre-

installed, you can simply boot it up and activate the OS. However, reServer still

supports another Windows OS and, also, Linux OS, so you can cover the pre-

installed OS with the one you want.

Note: 5G Band(W52): indoor use only

Warming

The user's manual or instruction manual shall include the following statement in a prominent location in the text of the manual:

This device needs to be used at a distance greater than 20cm.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is needed.
- Consult the dealer or an experienced radio/TV technician for help.

And the following additional information shall be contained in the user or instruction manual:

- 1) The Responsible party information: Name, Address, Telephone Number
- 2) The name and model number of the product

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator your body.