

Specification

Environmental Characteristics	Operating	Non-operating
Temperature	+15 to +30 °C	-10 to +50 °C
Humidity (non-condensing)	10 to 90%	5 to 95%
Altitude	≤ 2000 m	≤ 10000 m

Specification	Rating/Description	Notes
Rackmount Dims (H × W × D)	3U × 483 mm × 620 mm	
Rackmount weight (approx.)	22 kg	
Dual Redundant PSU	100-240 V, 50/60 Hz, 13.5-10.5 A ×2	Autoranging, IEC 60320 inlets
Power	800 W	(typical, based on dual GPU)
Cooling	Forced air	Front inlets, rear exhaust

End of Service Life



Dispose of the equipment and any components in accordance with all local and national safety and environmental requirements. **Caution: risk of explosion or leakage of flammable liquids or gas.** Any batteries should not be subject to extremely low pressure, extremely hot environments, disposed of in fire or mechanically crushed or cut.

Regulatory Compliance Statements

FCC

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.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this user guide, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their own expense.

European Union

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

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R-Series 10 Server Hardware User Guide



Customer Support Portal: <https://portal.7thsense.one>

Support

If your R-Series 10 server was purchased through one of our regional distributors, please contact your supplier directly for support.

Visit our customer support portal where you can find a wide range of support documentation and video tutorials, together with contact information.

Warranty

Standard warranty is 24 months, return-to-supplier. Please contact your supplier if you require an extended warranty. Please ask for instructions and request authorisation before returning a server to your supplier.

Operating Instructions

Operating instructions for your server can be found in the Online User Guides section of the customer support portal.

Handling and Installation

Unpacking

Unpack your server carefully onto a clean and level surface and examine it for any signs of transit damage. Contact your supplier immediately if anything appears to be damaged, or any parts missing. Please retain all packaging in case of future need to return a server.

Lifting

The weight is stated below and on the server's product label. R-Series 10 require a two-person lift, especially when manoeuvring into a rack. Observe your internal manual handling recommendations to avoid injury.

Rack mounting

The fascia panel must be removed before mounting. Remove the two small retaining screws bottom left and right, and then pull the fascia away. Refit the fascia after mounting.

3U units are supplied with rack mount slide rails and fixings, installation instructions are included with the slide rails.

Ensure that each server is properly secured to the rack cabinet.

Rack stability warnings:

- Ensure the rack is stable (e.g. bolted to the floor) before sliding out the server.
- Do not place objects on equipment projecting from a rack (e.g. do not use as a shelf).
- Only slide out one piece of equipment from the rack at a time.

Environment

General

R-Series 10 units are intended for use in a commercial (not domestic) environment and should be operated in a clean, dust free area (e.g. a server room).

The server is intended for operation in benign environments; that is, not subject to corrosive or explosive atmospheres, moisture or flammable gases. The server is non-protected against ingress of liquid (IPx0). The server is not designed to be subject to excessive mechanical shock or vibration.

This equipment is not suitable for use in locations where children are likely to be present.



Only used at altitude
not exceeding 2000 m



Only used in not-tropical
climate regions

Thermal

Do not block any of the server's air vents and ensure the ambient temperature around the server is compatible with the environmental characteristics stated below.

Particularly when mounted in a rack cabinet with front or rear doors the ambient temperature around the unit may be higher than the ambient room temperature.

Electrical

Before connecting power to the unit, ensure the electricity supply is compatible with the electrical ratings shown here and on the product label. The server shall not be connected to an IT (unearthed neutral) power distribution system and the mains socket-outlet used shall connect to the building installation ground.

The server is connected to and disconnected from the mains supply with the IEC 60320 power connectors on the rear of the unit. Both of the dual redundant PSUs should be connected when the server is in use.

Connecting External Equipment

To ensure best performance from the server and compliance with relevant EMC regulations, this equipment should only be used with high-quality shielded data and signal cables.

Only equipment and accessories approved to IEC 60950-1 and SELV circuits may be connected to the server. All equipment and accessories shall comply to the relevant standard for the server's port to which it is connected.

Maintenance

Air Filters

A user-serviceable air filter is located behind the server's front fascia. It is important to remove and clean or replace the filter periodically to avoid overheating. To remove the fascia first remove the two small screws bottom left and right, and then pull the fascia away. R-Series 10 servers are supplied with spare filter pads. Others can be provided by your supplier.

Replace the fascia and secure with the two screws. Servers should not be run without filters, since accumulations of dust inside the server can affect performance.

Cleaning

External casing and the front panel should be carefully wiped with a soft cloth and antistatic solution.

Server internal maintenance

Internal maintenance must only be undertaken by suitable qualified service personnel.



Warning: Do not operate the unit with any covers removed as the air flow through the unit may be compromised leading to overheating.

Warning: Motherboard CMOS battery replacement: Danger of explosion if incorrect battery used or battery incorrectly installed. Contact your supplier for further instructions.



Any alterations to the product's specification, including additional/alternative components, BIOS changes, overclocking, etc., may invalidate the warranty or impact the server's performance. Additionally, such changes or modifications could cause equipment no longer to comply with the relevant EMC regulations, and void the user's authority to operate the equipment. If in doubt, please contact your supplier.

Electrostatic discharge (ESD)

When handling electronic assemblies, take precautions to avoid electrostatic discharge (ESD) causing damage. Precautions should include the wearing of an ESD protective wrist strap and using antistatic bags for electronic assemblies when not installed in a server.

PSU removal

R-Series 10 Servers are fitted with dual redundant removable power supply units (PSUs). These can be replaced only with exactly matched units, as follows:

- **To remove:** Power down the server. Remove both IEC 60320 power connectors from the server's PSUs. Press the appropriate PSU's release tab inwards and pull the handle to slide the power supply out of the server.
- **To replace:** Slide the replacement power supply into the server and push firmly until it is fully clicks home. Refit the IEC 60320 power connectors and power on the server.



Warning: The IEC 60320 power connector should never be inserted into the PSU when the withdrawn PSU is not fitted in a server.