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

Product	Electrical Rating	Weight (kg)	Dimensions (H x W x D)
S-Series server	19 VDC ⎓ 7A (Max)	2.0	1U × 217 mm × 217 mm
S-Series PSU	100-240 V ~ 2.0 A, 60-50 Hz	—	25 mm x 55 mm x 151 mm
Power consumption	65 W		(typical)

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.

Note: 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 his 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.

S-Series Media Server

Hardware User Guide

7THSENSE

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

Support

If your S-Series 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 7thSense customer support portal.

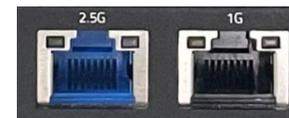## Handling and Installation

Unpacking

Unpack your S-Series server carefully onto a clean 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.

Rack mounting

A rack mounting frame and blanking plates can be supplied for mounting up to 2 S-Series servers as a 1U height rack unit.

Full details for safely mounting S-Series servers are given on document M908 available from 7thSense Design and can be found in the Online User Guides section of the customer support portal.

Dual NIC ports

On the rear, the left-hand RJ45 port labelled '2.5G' is factory-set to DHCP, and the right-hand RJ45 labelled '1G' set to Static IP.

Connecting External Equipment

To ensure best performance from the S-Series 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.

Environment

General

S-Series servers 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.

Only used at altitude not exceeding 2000 m

Only used in not-tropical climate regions

Thermal

The S-Series is cooled via front inlet rear exhausting forced air. 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 on the back page of this manual.

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

Electrical

Before connecting mains power to the server's power supply unit (PSU), ensure the electricity supply is compatible with the electrical ratings shown here and on the power supply product label.

The power supply unit is connected to, and disconnected from, the mains supply with an IEC 60320 power connector.

The low voltage output is connected to the labelled rear socket of the unit, where the lead can be secured to the chassis with the clip provided.

Only use the 19 VDC power supply unit that is supplied by 7thSense with the S-Series unit. Failure to do so may damage the S-Series and invalidate any warranty.

Maintenance

Air Filter

A user-serviceable air filter is located at the front of the unit, behind the front panel. It is important to clean the filter periodically to avoid overheating.

S-Series servers have a dual air filter located at the front of the unit which can remain in situ for maintenance. Use a vacuum cleaner with a crevice device held close to the front of the server to gently vacuum dust from the metal mesh. A soft brush can be used to loosen dust if required. Avoid direct contact between the server and vacuum cleaner to prevent damage.

The metal mesh and air filter can be removed for cleaning if necessary. S-Series should not be operated without filters as 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

S-Series units contain no user-serviceable parts. For CMOS battery replacement please contact your supplier for further instructions.

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

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.