SRU 0201
Storage Rack Unit

Ericsson Software Defined Infrastructure

The Ericsson Storage Rack Unit (SRU) 0201 is a 2U high performance JBOD/JBOF storage solution. The SRU 0201 supports up to 24 hot-swappable 2.5” drives, SSDs and HDDs. The SRU 0201 meets today’s high demands for high performance per capacity, for both telecom and IT type of applications.

The SRU is part of Ericsson Software Defined Infrastructure and is designed for Software-Defined Storage solutions from the start.
Features and benefits

Enclosure
The SRU 0201 in its 2U composition and tool less rails, is easy to install into any 19” rack. It is a Storage Bridge Bay (SBB) 2.0 complaint enclosure that can host up to 24 2.5” drives, 2 SBB 2.0 storage controller canisters, and 2 PSUs. With everything being hot swappable and with the status LEDs on enclosure, canister, PSU, and drives, it is incredible easy to maintain.

Storage Drives
The SRU 0201 supports up to 24 standard 2.5” dual port SAS 12G drives, to be populated with either SSD or HDD. The flexibility of the SRU0201 gives you the option to provide solutions for both cost, hybrid, and performance optimized storage use cases.

Storage Pooling
The SRU 0201 supports SAS zoning. By utilizing the SAS zoning features, the user can assign individual storage drives to different compute systems.

SAS Interface connectivity
The redundant canisters hold one SAS expander each, with 12 x 12G SAS connectivity over 3 x mini-SAS HD standard connectors. Using standard cabling, the SRU 0201 can be connected to CRU 0101, CRU 0201, CRU 0211, CSU 0201, or any other server hosting a host-based adapter (HBA). The SRU 0201 can be connected in dual or single path. The SRU 0201 further supports daisy-chaining, i.e. to link the SRU 0201 together for greater capacity.

Hardware Management
The SRU 0201 supports the in-band SCSI Enclosure Management Service (SES) and Symmetric Multiprocessing (SMP).

Power supply
Dual Power Supply Units (PS), operating in shared mode, provide redundancy to the enclosure so that if one PSU fails, or needs replacement, the other PSU will deliver full power to the complete enclosure. The PSUs come in both 230V AC and -48V DC versions.

Hot Swap everything
All drives are front accessible and hot swappable. The storage controller canisters are directly accessible from the rear side and hot swappable. The PSUs are rear accessible and hot swappable.

SRU 0201 and Ericsson Software Defined Infrastructure
SRU 0201 is a hardware component in Ericsson Software Defined Infrastructure, which provides a common managed hardware pool for all workloads. The pool can be dynamically scaled and used to create multiple environments to enable fast service rollout, performance optimization and efficient hardware utilization.

Ericsson Software Defined Infrastructure key features include multi virtual-POD (vPOD), hardware management across the common hardware pool with an open, single integration point and independent of vendor. SRU 0201 is suitable to be integrated in a Software Defined Infrastructure system where the vPODs are using the common hardware pool to dynamically create sets of compute and storage hardware logically isolated from each other. The SRU 0201 together with a storage software verified by Ericsson, creates a software defined storage solution which can either provided as a dedicated storage solution within a vPOD, or as a centralized storage resource.

Based on the common hardware pool, vPODs can be used to deploy applications in cloud-, appliance-, container-, or bare metal environments. The pool can also be shared across organizations with tenant separation where each department has its own environment. The vPODs are used by operators to quickly set up multiple hardware environments to support various flavors of NFVI with optimized performance and utilization. This capability makes it possible to support the implementation of pre-development environments replicating the production environment, e.g. when introducing new applications. The benefits are fast deployment of new services, improved operational efficiency and better utilization of the hardware.
Specifications

Form factor
— 2U SBB 2.0

Dimensions rack

Width
— 446 mm (full width)
— 7.6 inches (full width)

Height
— 2U (87.4mm)
— 2U (3.49 inches)

Depth
— 531 mm
— 20.9 inches

Weight
— Approx. 22kg, excluding drives

Storage

Type
— 24 hot pluggable 2.5-inch slots which can be populated with 24 HDD or SSD drives

Interfaces
— Dual port SAS 12Gbps for HDD and SSD

Interfaces
— 6x mini-SAS HD (3 per canister) 2x 3.5mm jack for serial console (1 per canister)
— 2x Power connector per PSU (1 per PSU).

Environmental Operating

Temperature
— 5°C to 40°C (41°F to 104°F)
Humidity
— 8% ~85% RH (non-condensing)

Altitude
— 0~3050 m, 950 m @40 °C – 3050 m @28 °C
— Note: Maximum temperature is reduced by 1°C/175meter (1°F/319 feet) above 950 meters (3,117 feet)

Shock
— 3G, 11 m/s, half sine shock

Vibration
— 0.15Grms, 5~100Hz

Sound power
— <6.5Bels LwA @23 °C

Environmental Non-operating

Temperature
— -40°C to 70°C (-40°F to 158°F)

Humidity
— 5% ~95% RH (Non-condensing).

Altitude
— 0~3050m

Shock
— 35G, 142 inch/sec, trapezoidal shock

Vibration
— 1.04Grms, 2~200Hz, without packaged

Power

Alternating Current
— 2x 600W 90-264V AC auto-ranging 47-63z input

Direct Current
— 2x 600W (-36 V) ~ (-72V) DC

Consumption
— 456W @24 drives full configuration (14W/drive)
### Standards and regulations

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