Equipment Access Switch (EAS 0102)

Ericsson Software Defined Infrastructure

EAS 0102 is a 1U, 19” access switch offering 48x1 GE ports and 4x10 GE ports which together with the Ericsson SDI Manager provides the control network switching capability of the Ericsson SDI system. It aggregates the control traffic from the Ericsson CSU (Compute Switch Unit), SSU (Storage Switch Unit) and CRU (Compute Rack Unit) as well as from third party equipment.
Features and Benefits

- EAS 0102 provides a firewall for the 3PP management and control communication to ensure a robust and secure management network operation. It can be deployed with or without redundancy depending on customer preferences. If the management network is used for application control traffic, it is recommended that a redundant deployment is used.

Key features

- 48-port switch
- Available in 110V/230V AC or 48V DC power versions
- Four dual-mode (GbE/10GbE) small form-factor pluggable transceiver (SFP/SFP+) uplink ports
- Comprehensive Layer 2 functionality with RIP and static routing
- 12-inch deep, 1 U form factor
- Layer 3 (OSPF v2, IGMP v1/v2/v3, PIM, VRRP, Q-in-Q, BFD, Virtual Router) supported via enhanced feature license
- BGP and MBGP supported via advanced feature license
- IPv6 management support, including neighbor discovery, stateless auto configuration, telnet, SSH, DNS, syslog, NTP, ping, traceroute, ACL, CoS static routing and RIPng
- IPv6 routing features (OSPFv3, virtual router support for unicast, VRRPv6, PIM, MLDv1/v2) supported via enhanced feature license
- Additional IPv6 routing features (BGP and MBGP) supported via advanced feature license

EAS 0102 Ericsson Software Defined Infrastructure

EAS 0102 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) and telecom characteristics together with datacenter efficiency. EAS 0102 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. Ericsson SDI Manager is operating over the dedicated control network where EAS 0102 provides the redundant switching backbone to ensure a robust and secure management network operation.

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

Physical
- Dimensions (W x H x D): 44.21 x 4.32 x 41.73 cm
- Weight: 8.5 kg
- Airflow: Back to front
- Power supply: 100/240 VAC (EAS 0102) or 48VDC (EAS 0102DC)
- Power consumption: 115W

Networking
- Switching Engine Model: Store and forward
- Total 10/100/1000 Ports: 48
- Uplinks: 4 dual-mode 10GE/GE SFP+/SFP ports

Compute
- CPU: 1.5 GHz
- DRAM: 4 GB with ECC
- Flash: 4 GB

Environmental
- Operating temperature: 0° to 45° C
- Storage temperature: -40° to 70° C
- Relative humidity operating: 10% to 85%(noncondensing)
- Relative humidity

Standards & Regulations

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<th>Functionality</th>
<th>Description</th>
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| EMC           | - EMC Directive 2014/30/EC,  
               |   - ETSI EN 300 386:2012 |
| Emission      | - CISPR 32 /EN 55 032:2012, Class A  
               |   - CISPR 22/EN 55 022:2010, Class A |
| Immunity      | - CISPR 24/EN 55 024 :2010 |
| FCC 47 Part 15: subpart B | - Unintentional radiators, Class A |
| Safety        | - Low Voltage Directive 2014/35/EU  
               |   - IEC/EN 60 950-1: 2005 |
| RoHS          | - RoHS Directive, 2011/65/EU  
               |   - EN 50581:2012 |

EAS 0102 is based on the Juniper Networks EX4300 switch Juniper EX4300-48T-AFI
EAS 0102DC is based on the Juniper Networks EX4300 switch Juniper EX4300-48T-DC-AFI