SESAME BY ITRENEW

DISCOVERY FAST-START

Getting Started Guide

(version 1.1)

SESAME BY ITRENEW

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Introduction

This document provides information on how to operate the Sesame Discovery Fast-Start appliance.

Sesame Discovery Fast-Start is an easy to use and convenient technical evaluation unit for any Sesame solution. It is designed to slip under your desk and plug into standard 110V or 220V worldwide power so that you can quickly test your software on production hyperscale nodes.

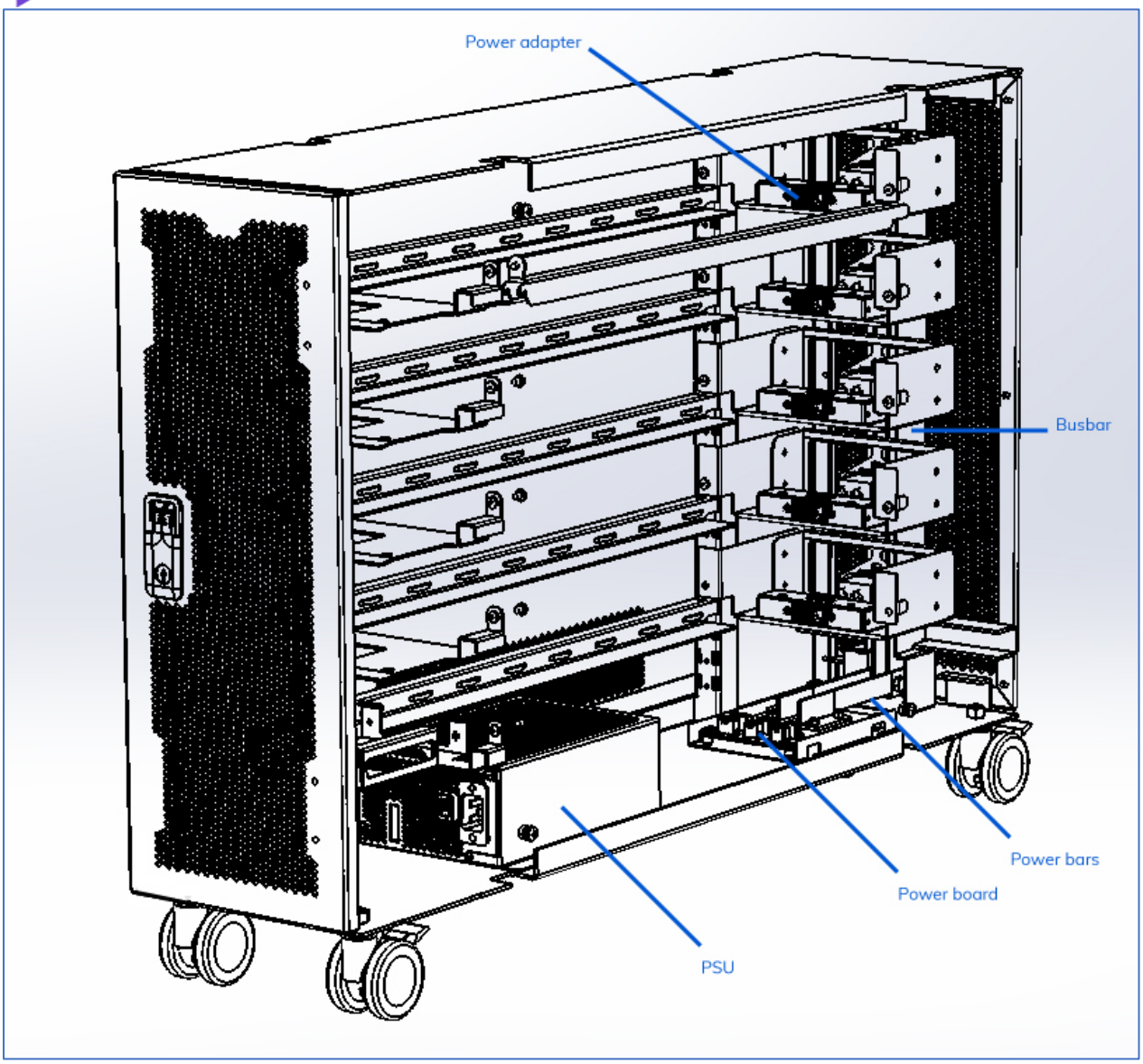
More details on our website https://www.sesame.com/discovery

Technical Specifications

	NODES	CPU	MEMORY	NETWORK	BOOT
PURPLE	compute 2S	2x 12-core x86	256 GB (16x16)	1x10 GbE SFP+	120GB mSATA
MINT	management, infrastructure	1x 12-core x86	64 GB (4x16)	1x10 GbE SFP+	120GB mSATA

BASE			GROWTH			SCALE		
compute	MINT	1x 12c 64GB 10G	compute	MINT	1x 12c 64GB 10G	compute	PURPLE	2x 12c 256GB 10G
compute	MINT	1x 12c 64GB 10G	compute	MINT	1x 12c 64GB 10G	compute	PURPLE	2x 12c 256GB 10G
compute	MINT	1x 12c 64GB 10G	compute	MINT	1x 12c 64GB 10G	compute	PURPLE	2x 12c 256GB 10G
			compute	MINT	1x 12c 64GB 10G	compute	PURPLE	2x 12c 256GB 10G

DIMENSIONS	240 x 680 x 993 mm (W x H x D)	MAX SERVER COUNT	5	DOORS AND PANELS	yes
POWER INPUT	110/220V 50/60Hz	WEIGHT	35kg	LOCK	yes
MAX POWER	1600 W	MAINTENANCE	tool-free	WARRANTY	3 years



Operating environment

The Sesame Discovery Fast-Start is designed for an office environment and the table below describes the environmental condition limits.

Specification		Requirement
Ambient Temperature	Operating	10°C to 35°C at sea level
	Non-Operating	-40°C to 60°C at sea level
Humidity	Operating	10% to 80% non-condensing
	Non-Operating	5% to 95% non-condensing
Altitude	Operating	3050m maximum
	Non-Operating	9144m maximum

Package contents

- Discovery mini rack chassis
- Servers based on BASE, GROWTH or SCALE configuration
- Mikrotik CRS305-1G-4S+IN switch - with RJ45 uplink port
- 1600W ATX power supply
- Power cords (US & EU)
- SFP+ network cables
- Warranty book
- Serial Number chassis list
- Getting Started Guide
- USB key with serial numbers and documentation
- Discovery door keys

Quick start

Connect your DHCP ready RJ45 network cable into the switch RJ45 port.
Insert the power cable from outside the chassis and plug into the power supply.
Turn on the power supply.
Wait for the switch and server BMC initialization (about 1 minute)
Press the red power button on the front of the servers to start them.

The default boot order is:

1. USB
2. PXE boot (IPv6 then IPv4)
3. Local mSATA drive

You may change this order by editing it in the BIOS of the server.

By default Ubuntu 19.04 is installed on the mSATA drive and the credentials are:
User: **`sesame`**
Password: **`DontCh4ngeMe!`**

You can access the servers via SSH or using the SOL through ipmitool commands.

Handling

Remove server

You can easily unload your servers from the chassis:

- Disconnect the 10G cable NIC.
- Pull the green retention plunger upward.
- Using the handle, pull the server away from the rack.
- Remove the server sled.

Insert server

You can easily load your servers into the chassis:

- Insert the server sled into the rack
- Using the handle, push the server into the rack.
- Connect the 10G cable NIC.

Manage server

You can use IPMI commands

*The default credentials are user: **USERID** and password: **PASSW0RD***

1/ Checking the status of the server

```
$ ipmitool -I lanplus -H nodeIP -U USERID -P PASSW0RD chassis power status

Chassis Power is off
```

2/ Starting the server

```
$ ipmitool -I lanplus -H nodeIP@  -U USERID -P PASSW0RD chassis power on

Chassis Power Control: Up/On
```

3/ Checking the status of the server again

```
$ ipmitool -I lanplus -H nodeIP@ -U USERID -P PASSW0RD chassis power status

Chassis Power is on
```

4/ Show some metrics about the server

```
$ ipmitool -I lanplus -H nodeIP@  -U USERID -P PASSW0RD sdr

Outlet Cntr Temp | 36 degrees C      | ok
Inlet Temp       | 27 degrees C      | ok
PCH Temp         | 50 % degrees C    | ok
P0 Therm Margin  | -33 degrees C     | ok
P1 Therm Margin  | -24 degrees C     | ok
P0 DIMM Temp     | no reading        | ns
P1 DIMM Temp     | no reading        | ns
HSC0 Input Power | 146 Watts         | ok
HSC0 Input Volt  | 12.62 Volts       | ok
CPU0 Tjmax       | 90 degrees C      | ok
CPU1 Tjmax       | 90 degrees C      | ok
SYS_Fan0         | 2925 RPM          | ok
SYS_Fan1         | 3000 RPM          | ok
TSOD SMBus Sts   | 0xe8              | ok
CPU Therm Trip   | 0x36              | ok
Pwr Thresh Evt   | 0xfb              | ok
Battery Mon      | 0xe1              | ok
SEL Status       | 0xb7              | ok
DCMI Watchdog    | 0xa6              | ok
Processor Fail   | 0x91              | ok
Chassis Pwr Sts  | 0x76              | ok
Thermal Limit 1  | Not Readable      | ns
```

Don't forget to replace hostname, username and password with your own.

```
ipmitool -I lanplus -H nodeIP -U USERID -P PASSW0RD set <option> <value>
Options are:
    hostname <host>        Session hostname
    username <user>        Session username (default USERID)
    password <pass>        Session password (default PASSW0RD)
```

Manage switch

The switch is based on a Mikrotik CRS305-1G-4S+IN model.
By default you simply have to plug your DHCP ready RJ45 network cable into the RJ45 port, it will act as a L2 switch for the four SFP+ 10G ports.

The default management IP for the switch is 192.168.88.1 from any port, with the username **admin** and no password

More details can be found at this website: https://mikrotik.com/product/crs305_1g_4s_in

Safety

WARNING : Do not touch the busbar to avoid hazard of electrical shock.
CAUTION : Let 20 cm free space around the Discovery chassis to permit the heat circulation flew.
Do not obstruct the grid.

Support

You can contact our support team by using email to **support@sesame.com**

For server hardware maintenance, please refer to the online documentation at

https://opencompute.dozuki.com/c/Leopard_for_Open_Rack_V2