

EnGenius®

I Data Center Server S21 Quick Reference Guide

Front-side Features

Up to 24x 2.5" NVMe Hard Drive

Power Button

UID Button

Reset Button

System LEDs

USB 2.0 Ports

USB 3.0 Ports

Rear-side Features

CPU Console port (USB 2.0)

CPU display (mini-DP)

Slot 3 PCIe x16

Slot 2 PCIe x16

Slot 1 PCIe x16

Slot 3 PCIe x8

Slot 4 PCIe x16

DCP NIC3.0

OCN NIC3.0

CRPS

DC-SCM

CPU USB Port (USB 3.0)



BMC LAN Port (RJ45)

Power Button

Reset Button

BMC Quick Access

- Connect:** Plug a network cable into the dedicated **MGMT** port on the rear panel.
- Find IP:** Check your DHCP server for the assigned IP, or watch for it on the screen during the Power-On Self-Test (POST).
- Log In:**
 - Open a web browser and enter the BMC IP address.
 - Username: root
 - Password: OpenBmc (Note: The first character is a zero)
- ⚠ Security Warning:** After your first login, you **must** change the default password immediately under Settings > User Management!

System Features: Front		System Features: Rear		Support Resources	
Feature	Description	Feature	Description	<div>Product Page</div> 	<div>BMC User Guide</div> 
Power Button	Controls system power on/off	Power Supplies	2× CRPS slots		
Reset Button	Performs system warm reboot	IPMI Management Port	1× RJ45 dedicated BMC port (AST2600) for remote management (IPMI/Redfish)		
UID Button & LED	Activate blue LED for system identification	Mini DisplayPort	1× Mini DP video output for BMC-controlled console		
Status LEDs (x4)	Fault (Red), LAN (Green/Amber), M.2 (Amber), UID (Blue)	USB Ports	1× USB 3.0 Type-A		
USB Ports	2× USB 3.0 Type-A Ports	Serial Port	1× USB 3.0		
Drive Bays	Up to 24× 2.5" U.2 NVMe/SATA Hot-swap drive bays (tool-less trays)	Expansion	Up to 8x PCIe Gen5 slots, 2x OCP NIC 3.0 slots		

LED Status Reference

Link Activity / LAN Speed

Power Button LED

UID LED/System Reset Button

Information LED		
LED	State	Description
Power LED	Green / Blinking / Off	System On / Sleep / Off
UID LED/System Reset Button	Blue	Identify Active
LAN Speed	Solid Green / Solid Amber / Light Off	Speed 1G / 100 Mbps / No link
LAN Activity	Blinking	Network Traffic

System Block Diagram

Up to 6400 (10DPC)

DDR5

CPU1

Sierra Forest-SP

Granite Rapids-SP

PCIe G5 x16 *2

DCP x8 *2

NVMe (x4) *8

UPI

CPU2

Sierra Forest-SP

Granite Rapids-SP

PCIe G5 x16 *2

x8 Gen5

PCIe G5 x8 *1

NVMe (x4) *16

USB 3.2 (Internal)

USB 3.2 *2

Front Panel

USB 3.2 *2

MiniDP

RJ45

ASM3142

DP2105

BMC AST2600

SCM PLD

PPR AST1060

eSPI

Main PLD