

Synergy Server

Generation 4

Engineered with enterprise class components for fail-safe reliability.



Synergy Server (Gen 4) is an essential component of Synergy 3, Synectics command and control platform.

The device is equipped with auto-rebuild functionality, dual power supplies, dual onboard 10 Gigabit NIC's*, and real time, redundant hot swap server replication** to ensure unparalleled data resilience and hardware failover protection.

The added flexibility of server virtualization and optional Incident Locker built into the Synergy Server enables customers to tailor devices to individual site requirements.

Virtualization enables hot backups and offline working systems to be accessed and completed during live operation providing complete working flexibility for risk mitigation and minimal downtime, which is crucial for mission-critical sites.

Features

- Dual onboard 10GbE Network Interfaces (NICs) can be deployed in teamed or aggregate configuration for system redundancy
- Solid State host operating system drive reduces the risk of mechanical disk failure compared to hard disk drives
- Onboard remote management facility enables device control from any networked location
- Windows Server 2016
- Available in 1U for maximum space saving and minimal total footprint
- Optional integrated Incident Locker to minimize rack and power requirements (up to 8TB of storage capacity – RAID 1)
- Front LED indicators for drive power, activity or failure status

NOTE:

* 10 Gigabit NICs, are automatically compatible with 1 Gigabit connections.

The Synergy Server requires a minimum of a 1 Gigabit connection.

** Hardware failover requires a second Synergy server.

Specifications

IT ARCHITECTURE	
Host O/S	Microsoft Server 2016
Virtual Machine O/S	Microsoft Server 2016 (VM)

PORTS	
Ethernet	2 x 10Gbps Ethernet available for Teaming
USB	3 x USB 3.0 (1 Front, 2 Rear) 2 x USB 2.0 (2 Rear)
Display	1 X VGA (IPMI viewing available)

APPLIANCE FUNCTIONALITY	
Lockable Front Panel	Yes
Quick Lock Rack Kit	Yes
Advanced Out-of-Band Remote Management Service including IP-KVM	Yes
Synergy Server Advanced Health Monitor	Yes
SNMP Alarms	Yes
SNMP Alarms and Advanced Health Monitoring notified and managed via Synergy 3	Yes

POWER	
Hot Swap PSU	Yes (2 x in each model)
Power Consumption	Synergy Server – Max 300w, Normal 140w
BTU's	Synergy Server – Max 1025 per hour, normal 475 per hour

NETWORK CONNECTIVITY REQUIREMENTS*	1 Port	2 Ports (Data Connections)	3 Ports (2 x Data Connections, 1 x Dedicated Management IPMI)
1 x 10Gbps / 1Gbps	Y	N/A	N/A
2 x 10Gbps / 1Gbps	N/A	Y	Y
Out-of-Band Management Connection	Y	Y	Y
Dedicated Management Connection	N/A	N/A	Y
Adapter Fault Tolerant	N/A	Y	Y
Switch Fault Tolerant	N/A	Y	Y
Adaptive Load Balancing	N/A	Y	Y
Static Link Aggregation	N/A	Y	Y
Dynamic Link Aggregation	N/A	Y	Y

* Fiber options available

GENERAL	
Size (H x W x D)	1U 45 mm x 430 mm x 540 mm 1.8" x 17" x 21.2
Weight	6 kgs / 13 lbs
Operating Temperature	18-21°C Recommended (64.4-69.8°F), Max 35°C (95°F) Short term maximum operating temp up to 45°C (113°F) for up to 1% of maximum yearly uptime
Storage Temperature	-20°C to 80°C / -4 to 176°F
Humidity	5% to 90% non-condensing, 40% recommended
Certifications and Approvals	RoHS compliant EMI/EMC Certification Other Certification Pending