

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 | | |

Synectics

sales@synecticsglobal.com

synecticsglobal.com

Specifications subject to change. E & OE.

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