SYNECTICS

Synergy Server Max

Future-proof flexibility with enterprise-grade reliability.

With virtualisation built in, and a powerful 16-core CPU, more Synergy functions can be powered by the Synergy Server Max than ever before. Exceptional reliability and resiliency protect your system uptime, and optional hardware failover provides additional peace of mind.

Why Choose the Synergy Server Max?

Performance

16-core CPU provides futureproof performance, with more concurrent Synergy functions available than ever before, as well as Synergy Web compatibility.

Resiliency

Enterprise-grade, high-reliability hardware with RAID protection for OS and data storage, and dual power supplies as standard to enhance system uptime.

Health Monitoring

Automatic alerts of any hardware events that require action, ensuring optimal system resilience and uptime is maintained.

Simplified Installation

Where licensed, hardware is preinstalled with software and includes an easy-to-understand setup process, reducing installation time.

Storage Dense

Up to 3.6TB of storage is available per server – ideal for incorporating an incident locker.

Minimised Footprint

Fewer servers are required, reducing the system footprint as well as the total cost of ownership (energy and cooling costs).

Key Features

- Dual 480GB Host OS SSDs with RAID 1 protection
- Dual 10Gbps Ethernet, with optional fibre connectivity
  Dual hot swappable 80 Plus Platinum power supplies

- Supports a range of concurrent, virtualised Synergy functions. For example, a Synergy Server, Incident Locker, and Synergy Web can be hosted on a single server

Specifications

GENERAL	
Dimensions (W x H x D)	1U rack-mountable server 440 mm x 43 mm x 773 mm (17.3" x 1.7" x 30.4")
Weight	Maximum 20.2 kg
Operating Temperature	ASHRAE A2 (10-35°C if altitude is 900m or below)
Operating Humidity	ASHRAE A2: 8% to 80%; maximum dew point: 21°C (70°F)
Certifications and Approvals	CE, FCC, UKCA, NOM, KC, cTUVus, EAC, GS
Security	Lockable front bezel included
Operating System	Windows Server IoT 2022
CPU	AMD Epyc 16 Core CPU
RAM	64GB ECC (error-correcting code) RAM
Host OS Storage	2x 480GB M.2 SSDs with RAID 1 resilience
VM and Data Storage	Up to 3.6TB of RAID 1 storage (2x 4TB enterprise HDDs)

POWER	
Hot Swap PSUs	2x redundant 1100W PSU modules
PSU Efficiency	80 Plus Platinum
Typical Power Consumption (Based on Maximum Configuration)	180w (614 BTUs per hour)

CONNECTIVITY	
Networking (Standard)	2x 10Gbps RJ45 (10G-BASE-T) via included network adapter
Networking (Optional Alternatives)	2x 10Gbps SFP+ 4x 10Gbps RJ45 4x 1Gbps RJ45
Out-Of-Band (OOB) Networking (Dedicated Management and Health Toolset)	1x RJ45
USB	Front: 1x USB 3.1 G1 Type-A, 1x USB 2.0 Type-A Rear: 3x USB 3.1 G1 Type-A
Video	Rear: VGA
Other	Front: Diagnostics Port

PRODUCT FUNCTIONALITY	
System Health Monitoring	Configured as standard with Synergy alerts
Out-Of-Band Management with IP-KVM	Yes
SNMP Alarm Support	Yes
Performance Optimised 4K Sector Size for HDDs	Yes
Tool-less HDD Replacement	Yes
Tool-less Hardware Servicing	Yes

PART CODES

SY-SERVERMAX-V1-3.6TB-R1	Synergy Server Max V1 1U – 3.6TB RAID 1

SPARE PART CODES

SY-CRU-PSU-L1	1100W PSU Module for Synergy Server Max V1 and PSN/Locker Max V1
SY-CRU-M2SSD-L1	480GB M.2 OS SSD for Synergy Server Max V1 and PSN/Locker Max V1
SY-CRU-RAID1U-L1	RAID Controller for Synergy Server Max V1
SY-CRU-RACK-L1	Rack Mount Kit for Synergy Server Max V1 and PSN/Locker Max V1
SY-CRU-FAN-L1	Internal Fan for Synergy Server Max V1
SY-HDD-SAS-4KN-4TB-L	4TB Enterprise SAS HDD for Max Hardware (4K Sector Size)
SY-HDD-SAS-4KN-8TB-L	8TB Enterprise SAS HDD for Max Hardware (4K Sector Size)
SY-HDD-SAS-4KN-12TB-L	12TB Enterprise SAS HDD for Max Hardware (4K Sector Size)
SY-HDD-SAS-4KN-16TB-L	16TB Enterprise SAS HDD for Max Hardware (4K Sector Size)
SY-HDD-SAS-4KN-20TB-L	20TB Enterprise SAS HDD for Max Hardware (4K Sector Size)

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www.synecticsglobal.com