

# EMC ATMOS G3 SERIES



EMC Atmos G3  
Cloud Storage  
Platform

EMC® Atmos® G3 series includes Atmos G3-Dense-480, G3-FLEX-360, G3-FLEX-240, and G3-FLEX-180. The G3 series offer a variety of configuration options, including support for various disk capacities as well as support for rack based solutions consisting of 4, 8 or 12 Atmos G3 nodes. The Atmos G3-Dense-480 node consists of 60 disks per node. The Atmos G3-FLEX-360 and G3-FLEX-240 nodes consist of 30 disks per node. The G3-FLEX-180 consists of 15 disks per node.

## Specifications

### ALL EMC ATMOS G3 CONFIGURATIONS

The Atmos G3 configurations provide the following features and capabilities

- Dense Node architecture
  - SAS direct attached storage
  - Intel x86 Architecture
- 10 GbE Node network connectivity
  - 10 GbE network connectivity from node to network
  - Various network interfaces supported
- EMC 40U Rack based solution
  - HA Power & Cooling
  - Field and Customer Serviceable components

<b>ARCHITECTURE</b>	Standard 40U deep cabinet 2U 4 server-blade enclosure EMC 4U 60 Disk drawer based disk enclosure Fully accessible field serviceable components Conventional front to back cooling HA Power cabling and cooling
<b>CONNECTIVITY</b>	Network: 10 Gb Ethernet connectivity between servers and customer's network for data, GbE for management/IPMI/local traffic  Disk: SAS wide port (4 lanes) cable connections between servers and disk enclosures  Number of 10GbE ports required for non HA: 2/4 Number of 10GbE ports required for HA/Channel Bonding 4/8
<b>PROTOCOL</b>	TCP/IP

REDEFINE

SPECIFICATION SHEET

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<b>DIMENSIONS</b>	Height: 75 in/190.8 cm Width: 24 in/60.96 cm Depth: 44 in/111.76 cm
<b>POWER SPECIFICATIONS</b>	Connection: (4) Single Phase L6-30 (REDUNDANT POWER) or Input Voltage: 200 – 240VAC Circuit Breaker: Max. per AC Power Source: 30A / connection Frequency: 50-60Hz OR Connection: (2) 3-Phase DELTA (REDUNDANT POWER) Input Voltage: 200-240VAC Circuit Breaker: Max. per AC Power Source: 50A / connection Frequency: 50-60Hz OR Connection: (2) 3-Phase WYE (REDUNDANT POWER) Input Voltage: 400VAC Circuit Breaker: Max per AC Power Source: 32A / connection Frequency: 50-60Hz
<b>ENVIRONMENTAL SPECIFICATIONS</b>	Operating Temperature (°F/°C): 41 - 90/ 5 - 32 Max. Altitude: 7,500 ft/ 2,286 m @ 90°F/32°C? Relative Humidity: 20 - 80% non-condensing Raised Floor: Not Required

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## EMC ATMOS G3-DENSE-480 PRIMARY FEATURES

The Atmos G3-Dense-480 provides the following features and capabilities

- Dense-480 Node architecture
  - 60 Disk Nodes
  - 4 and 8 node configurations

## EMC ATMOS G3-DENSE-480 DETAILED SPECIFICATIONS

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### G3-DENSE-480

	<b>4 NODE CONFIGURATION</b>	<b>8 NODE CONFIGURATION</b>
<b>CONFIGURATION</b>	4 Nodes = 4 servers + 4 disk enclosures	8 Nodes = 8 servers + 8 disk enclosures
	Node server-to-disk ratio: 1:60 (One Node contains 60 disks)	
<b>DISK TYPE</b>	1 TB 7200 2 TB 7200	1 TB 7200 2 TB 7200

	4 TB 7200	4 TB 7200
	6 TB 7200	6 TB 7200
<b>SIZE</b>	240 TB (1TB disk)	480 TB (1TB disk)
	480 TB (2TB disk)	960 TB (2TB disk)
	960 TB (4TB disk)	1920 TB (4TB disk)
	1440 TB (6TB disk)	2880 TB (6TB disk)
<b>EXPANSION</b>	4 node / 240 drive expansion kit	
<b>POWER</b>	1, 2, 4, 6 TB 7200	1, 2, 4, 6 TB 7200
<b>SPECIFICATIONS</b>	RPM disks:	RPM disks:
	Max Power: 4.8 kVA	Max Power: 9.6kVA
	Max Heatload:	Max Heatload:
	16,200 BTU/hr	32,400 BTU/hr
<b>WEIGHT</b>	1,500 lbs.	2,520 lbs.

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### EMC ATMOS G3-FLEX-360 PRIMARY FEATURES

The Atmos G3-Flex-360 provides the following features and capabilities

- Flex-360 Node architecture
  - 30 Disk Nodes
  - 4, 8 and 12 node configurations

### EMC ATMOS G3-FLEX-360 DETAILED SPECIFICATIONS

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#### G3-FLEX-360

	<b>4 NODE CONFIGURATION</b>	<b>8 NODE CONFIGURATION</b>	<b>12 NODE CONFIGURATION</b>
<b>CONFIGURATION</b>	4 Nodes = 4 servers + 2 disk enclosures	8 Nodes = 8 servers + 4 disk enclosures	12 Nodes = 12 servers + 6 disk enclosures
	Node server-to-disk ratio: 1:30 (One Node contains 30 disks)		
<b>DISK TYPE</b>	1 TB 7200	1 TB 7200	1 TB 7200
	2 TB 7200	2 TB 7200	2 TB 7200
	4 TB 7200	4 TB 7200	4 TB 7200

<b>SIZE</b>	120 TB (1TB disk)	240 TB (1TB disk)	360 TB (1TB disk)
	240 TB (2TB disk)	480 TB (2TB disk)	720 TB (2TB disk)
	480 TB (4TB disk)	960TB (4TB disk)	1440TB (4TB disk)
<b>EXPANSION</b>	4 node / 120 drive expansion kit		
<b>POWER SPECIFICATIONS</b>	1, 2, 4 TB 7200 RPM disks:	1, 2, 4 TB 7200 RPM disks:	1, 2, 4 TB 7200 RPM disks:
	Max Power: 3.4 kVA	Max Power: 6.4 kVA	Max Power: 9.4 kVA
	Max Heatload: 11,475 BTU/hr	Max Heatload: 21,600 BTU/hr	Max Heatload: 31,725 BTU/hr
<b>WEIGHT</b>	1,100 lbs.	1,700 lbs.	2300 lbs.

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### EMC ATMOS G3-FLEX-240 PRIMARY FEATURES

The Atmos G3-Flex-240 provides the following features and capabilities

- Flex-240 Node architecture
  - 30 Disk Nodes
  - 4 and 8 node configurations

### EMC ATMOS G3-FLEX-240 DETAILED SPECIFICATIONS

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#### G3-FLEX-240

	<b>4 NODE CONFIGURATION</b>	<b>8 NODE CONFIGURATION</b>
<b>CONFIGURATION</b>	4 Nodes = 4 servers + 4 disk enclosures	8 Nodes = 8 servers + 8 disk enclosures
	Node server-to-disk ratio: 1:30 (One Node contains 30 disks)	
<b>DISK TYPE</b>	1 TB 7200 2 TB 7200 4 TB 7200 6 TB 7200	1 TB 7200 2 TB 7200 4 TB 7200 6 TB 7200
<b>SIZE</b>	120 TB (1TB disk) 240 TB (2TB disk) 480 TB (4TB disk) 720 TB (6TB disk)	240 TB (1TB disk) 480 TB (2TB disk) 960 TB (4TB disk) 1440 TB (6TB disk)
<b>EXPANSION</b>	4 node / 120 drive expansion kit 120 drive expansion kit	

<b>POWER SPECIFICATIONS</b>	1, 2, 4, 6 TB 7200 RPM disks:	1, 2, 4, 6 TB 7200 RPM disks:
	Max Power: 3.8 kVA	Max Power: 7.4 kVA
	Max Heatload: 12,825 BTU/hr	Max Heatload: 24,975 BTU/hr
	<b>WEIGHT</b>	1,150 lbs.

## EMC ATMOS G3-FLEX-180 PRIMARY FEATURES

The Atmos G3-Flex-180 provides the following features and capabilities

- Flex-180 Node architecture
  - 15 Disk Nodes
  - 4, 8 and 12 node configurations

## EMC ATMOS G3-FLEX-180 DETAILED SPECIFICATIONS

### G3-FLEX-180

	<b>4 NODE CONFIGURATION</b>	<b>8 NODE CONFIGURATION</b>	<b>12 NODE CONFIGURATION</b>
<b>CONFIGURATION</b>	4 Nodes = 4 servers + 2 disk enclosures	8 Nodes = 8 servers + 4 disk enclosures	12 Nodes = 12 servers + 6 disk enclosures
	Node server-to-disk ratio: 1:15 (One Node contains 15 disks)		
<b>DISK TYPE</b>	1 TB 7200 2 TB 7200 4 TB 7200	1 TB 7200 2 TB 7200 4 TB 7200	1 TB 7200 2 TB 7200 4 TB 7200
<b>SIZE</b>	60 TB (1TB disk) 120 TB (2TB disk) 240 TB (4TB disk)	120 TB (1TB disk) 240 TB (2TB disk) 480 TB (4TB disk)	180 TB (1TB disk) 360 TB (2TB disk) 720TB (4TB disk)
<b>EXPANSION</b>	4 node / 60 drive expansion kit		
<b>POWER SPECIFICATIONS</b>	1, 2, 4 TB 7200 RPM disks: Max Power: 2.8 kVA Max Heatload: 9,450 BTU/hr	1, 2, 4 TB 7200 RPM disks: Max Power: 5.1 kVA Max Heatload: 17,215 BTU/hr	1, 2, 4 TB 7200 RPM disks: Max Power: 7.4 kVA Max Heatload: 24,975 BTU/hr
<b>WEIGHT</b>	900 lbs.	1,300 lbs.	1,700 lbs.

## CONTACT US

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The EMC logo is displayed in white text on a blue rectangular background. The letters 'EMC' are in a bold, serif font, with a small superscript '2' to the right of the 'C'.