

5ACCMSM2.xxxx-000

1 General information

5ACCMSM2.xxxx-000 are M.2 memory modules (SSD) and can be used with adapter card 5ACCMS01.MDT2-000 as an interface option in APC3100/PPC3100 system units.

- Compatible with APC3100/PPC3100 (using adapter card 5ACCMS01.MDT2-000)
- Solid-state drives
- MLC technology
- SATA support
- 512 GB or 1 TB


Caution!

M.2 memory modules are not designed for hot-plugging or hot-swapping per the Next Generation Form Factor (NGFF) specification. It is therefore not permitted to connect or replace M.2 memory modules during operation.

Information:

B&R makes every effort to keep this technical description as current as possible. The latest version of this technical description is available in PDF format on the B&R website (www.br-automation.com). For specifications that are not listed here, see the user's manual for the complete device being used.

2 Order data

Model number	Short description	Figure
	Mass storage options	
5ACCMSM2.0512-000	512 GB M.2 SSD MLC - Innodisk - SATA	
5ACCMSM2.1024-000	1 TB M.2 SSD MLC - Innodisk - SATA	
	Optional accessories	
	Mass storage options	
5ACCMS01.MDT2-000	Adapter card for M.2 mass storage device - For APC3100/PPC3100	

3 Technical data

Information:

The following specified characteristic data, features and limit values are only valid for these individual components and may differ from those of the complete system. The data specified for the complete system applies to the complete system in which this individual component is used, for example.

Model number	5ACCMSM2.0512-000	5ACCMSM2.1024-000
General information		
B&R ID code	0xFCCD	0xFCCE
Certifications	Yes	
CE	cULus E115267	
UL	Industrial control equipment	
Solid-state drive		
Capacity	512 GB	1024 GB
Data reliability	<1 unrecoverable error per 10 ¹⁵ bits read	
MTBF	3,000,000 h	
S.M.A.R.T. support	Yes	
Interface	SATA	
Continuous reading	Max. 560 MB/s	
Continuous writing	Max. 450 MB/s	

Model number	5ACCMSM2.0512-000	5ACCMSM2.1024-000
IOPS ¹⁾		
4k read	Max. 76,000 (random)	
4k write	Max. 76,000 (random)	
Endurance		
MLC flash memory	Yes	
Guaranteed data volume		
Client workload	600 TBW ²⁾	1172 TBW ²⁾
Compatibility	SATA 3.1 compliant ACS-2 SSD Enhanced SMART ATA feature set Native Command Queuing (NCQ)	
Electrical properties		
Power consumption	Max. 3.5 W	
Ambient conditions ³⁾		
Temperature		
Operation	-40 to 85°C	
Storage	-55 to 95°C	
Transport	-55 to 95°C	
Relative humidity		
Operation	10 to 90%, non-condensing	
Storage	10 to 95%, non-condensing	
Transport	10 to 95%, non-condensing	
Vibration		
Operation	7 to 2000 Hz: 20 g	
Storage	7 to 2000 Hz: 20 g	
Transport	7 to 2000 Hz: 20 g	
Shock		
Operation	1500 g, 0.5 ms	
Storage	1500 g, 0.5 ms	
Transport	1500 g, 0.5 ms	
Mechanical properties		
Dimensions		
Width	22 mm	
Height	80 mm	
Weight	Approx. 15 g	
Vendor information		
Manufacturer	Innodisk	
Manufacturer's product ID	M.2 (S80) 3MV2-P 512 GB	M.2 (S80) 3MV2-P 1 TB

- 1) IOPS: Random read and write input/output operations per second
- 2) TBW: Terabytes written
Client workload per standard JEDEC JESD219
- 3) These values can be limited by the adapter card used.