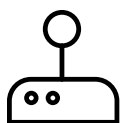




AMI Backplane Controller Matrix



AMI Backplane Controller Matrix

The MG9xxx Backplane Controller series from AMI provide LED and drive management for SAS/SATA/NVMe drives. They provide exceptional flexibility and require minimal board real estate, making them a perfect fit for numerous applications. A wide choice of reference designs and development tools are available, along with development boards to speed integration in specific OEM designs.

AMI's Backplane Controller series work with any HBA supporting SGPIO (SFF-8485) and/or SES-2 protocol over I2C. Backplane Controller Firmware can be upgraded via SMBus from the motherboard BMC, or USB, depending on the model.



MG9xxx Comparison Chart

The table below compares the key features of the MG9xxx Backplane Controller series from AMI. For more detail on individual Backplane Controllers, see the individual MG9xxx Backplane Controller product page and download the Data Sheet for the full product specification.

Features:



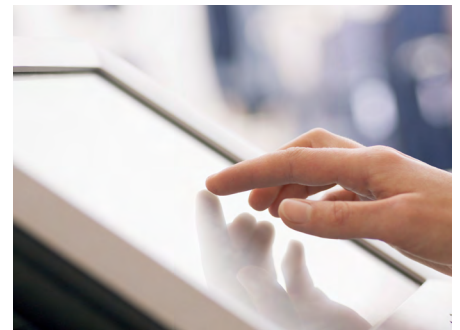
- True Single Chip Solution
- Ready to use, no firmware or programming required
- MG9100 UBM and MG9098 BP controllers support new generation NVMe SSDs
- Supports LED/Drive Management through SGPIO (SFF-8485) and/or SES-2
- Supports IBPI specification (SFF-8489)
- LED/Drive Management for NVMe SSDs supported through BMC and VPP SMBus

	MG9100	MG9098	MG9094	MG9081	MG9085A
Drives	8 U.2/U.3 NVMe/SAS/SATA	8 U.2 NVMe/SAS/SATA	8 SAS/SATA	8 SAS/SATA	6 SAS/SATA
UBM Channels	✓, 2/4	X	X	X	X
PCIe Hot-plug SMBus support	✓	✓	X	X	X
VPP/SHP Platform Support	✓	✓	X	X	X
SAS Power Disable	✓	✓	X	X	X
NVMe/SAS Drive Detect	✓	✓	X	X	X
SGPIO Channels	2	2	2	2	1
SGPIO Configurations	32	32	44	30	4
SES-2 (Legacy I2C based)	X	X	X	✓	✓
BMC Access through SMBus	✓	✓	✓	X	X
IPMI	X	X	X	✓	✓
IBPI	✓	✓	✓	✓	✓
Ready LED Support	✓	✓	✓	✓	✓
Global Act & Fail LED	✓	✓	✓	✓	✓
USB	X	X	X	✓	✓
Internal Voltage Regulator	X	X	X	✓	✓
Internal Crystal	✓	✓	✓	✓	✓
Package	QFN-64	QFN-64	TQFP-48	TQFP-48	LQFP-32

Features:



- Can drive up to 3 LEDs per slot
- Provides Drive Activity, Fail/Rebuild and Locate LEDs for each drive
- Up to 4 controllers can be cascaded to support up to 32 drives
- Firmware upgradeable through SMBUS from host BMC
- Diagnostics and Firmware Tools available for Win32, Win64, Linux®, EFI and DOS
- Available in QFN-64, TQFP-48 & LQFP-32 packages



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