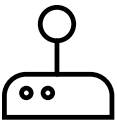




# AMI Backplane Controller Matrix



## AMI Backplane Controller Matrix

The MG9xxx series Backplane Controllers 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. Backplane Controller Firmware can be upgraded via SMBus from the motherboard BMC.



## 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
- MG9200/MG9100 UBM and MG9098 BP controllers support new generation NVMe SSDs
- Supports LED/Drive Management through SGPIO (SFF-8485)
- Supports IBPI specification (SFF-8489)
- LED/Drive Management for NVMe SSDs supported through BMC, VPP/SHP/NPEM, UBM SMBus



	<b>MG9200 (NEW)</b>	<b>MG9100</b>	<b>MG9098</b>	<b>MG9094</b>
<b>Drives</b>	8x SAS/SATA, U.2/U.3/EDSFF NVME	8x SAS/SATA, U.2/U.3/EDSFF NVME	8x SAS/SATA, U.2 NVME	8x SAS/SATA
<b>UBM Support</b>	4 x Channel	2/4 Channel	X	X
<b>UBM Specification</b>	1.4	1.3	X	X
<b>Seria Hot-Plug (SHP) Support</b>	NPEM / VPP / SHP	VPP / SHP	VPP / SHP	X
<b>SHP Channels</b>	Dual	Dual	Dual	X
<b>SHP Configuration</b>	Unlimited	HW Strap Limited	HW Strap Limited	X
<b>Drive Power Disable</b>	✓	✓	✓	X
<b>Drive Detect Support</b>	SATA / U.2 / U.3 / EDSFF	SATA / U.2 / U.3	SATA / U.2	SATA
<b>SGPIO Channels</b>	2	2	2	2
<b>SGPIO Configurations</b>	Unlimited	32	32	44
<b>BMC Access through SMBus</b>	✓	✓	✓	✓
<b>IBPI</b>	✓	✓	✓	✓
<b>Ready LED &amp; Global ACT/Fail</b>	✓	✓	✓	✓
<b>Package</b>	VBGA 8mm x 8mm 144-pin	QFN-64 9mm x 9mm	QFN-64 9mm x 9mm	TQFP-48 9mm x 9mm

**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 Windows® & Linux®
- Available in VBGA-144, QFN-64, & TQFP-48 packages



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