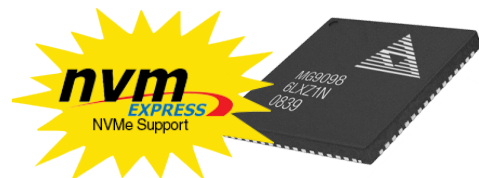


AMI Backplane Controller Matrix



The Backplane Controller series from AMI provide LED and drive management for SAS/SATA/U.2 & U.3 NVMe drives. They provide exceptional flexibility and require minimal board real estate, making them a perfect fit for numerous applications. A wide selection of reference designs and development tools are available to help speed the design process.

AMI's Backplane Controller series work with any HBA supporting SGPIO (SFF-8485) and/or SES-2 protocol over I2C. These Backplane Controllers can be flashed or 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.

Key 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
- 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

Features	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	Yes, 2/4	No	No	No	No
PCIe Hot-plug SMBus Support	Yes	Yes	No	No	No
VPP/SHP Platform Support	Yes	Yes	No	No	No
SAS Power Disable	Yes	Yes	No	No	No
NVMe/SAS Drive Detect	Yes	Yes	No	No	No
SGPIO Channels	2	2	2	2	1
SGPIO Configurations	32	32	44	30	4
SES-2 (Legacy I2C based)	No	No	No	Yes	Yes
BMC Access through SMBus	Yes	Yes	Yes	No	No
IPMI	No	No	No	Yes	No
IBPI	Yes	Yes	Yes	Yes	Yes
Ready LED Support	Yes	Yes	Yes	Yes	Yes
Global Act & Fail LED	Yes	Yes	Yes	Yes	Yes
USB	No	No	No	Yes	Yes
Internal Voltage Regulator	No	No	Yes	Yes	Yes
Internal Crystal	Yes	Yes	Yes	Yes	Yes
Package	QFN-64	QFN-64	TQFP-48	TQFP-48	LQFP-32

