Nand Flash Support Versus Firmware Package

Firmware package can contain several Nand Flash configurations. Please, refer to documentation included in package for more informations about Nand Flash configuration.

COLOR LEGEND
Supported and fast (see notes F1,F2)
Supported (see notes F3, F4)
Not supported

For any unreferenced Nand Flash, please contact mcu@atmel.com.

Part. Number	Manufacturer	Package	Capacity (MB) (2x = 2 Chip Select)	Page Size (B)	EVK525-AT90USB1286-usbdevice_ms_nf_df_sd-2_0_0
K9F5608U0D-P	Samsung	TSOP	32	512	F3
K9F5608U0D-F	Samsung	WSOP	32	512	F3
K9F1208U0C-P	Samsung	TSOP	64	512	F4
K9F1G08U0B-P	Samsung	TSOP	128	2048	F1
K9F2G08U0A-P	Samsung	TSOP	256	2048	F3
K9F4G08U0A-P	Samsung	TSOP	512	2048	F3
K9K8G08U0A-P	Samsung	TSOP	1024	2048	F3
K9WAG08U1A-P	Samsung	TSOP	2x 1024	2048	F3
K9NBG08U5A-P	Samsung	TSOP	4x 1024	2048	F3
NAND128W3Axx-N	Numonyx	TSOP	16	512	F2
NAND256W3Axx-N	Numonyx	TSOP	32	512	F2
NAND512W3A2C-N	Numonyx	TSOP	64	512	F2
NAND01GW3B2B-N	Numonyx	TSOP	128	2048	F1
NAND01GW3B2C-N	Numonyx	TSOP	128	2048	F1
NAND02GW3B2C-N	Numonyx	TSOP	256	2048	F2
NAND02GW3B2D-N	Numonyx	TSOP	256	2048	F3
NAND04GW3B2B	Numonyx	TSOP	512	2048	F2
NAND04GW3B2D-N	Numonyx	TSOP	512	2048	F3
NAND08GW3B2A	Numonyx	TSOP	1024	2048	F2
NAND08GW3B2C-N	Numonyx	TSOP	1024	2048	F3
MT29F2G08AACWP	Micron	TSOP	256	2048	F1
MT29F2G08AADWP	Micron	TSOP	256	2048	F1
MT29F2G08ABDWP	Micron	TSOP	256	2048	F1
MT29F4G08AAAWP	Micron	TSOP	512	2048	F3
MT29F4G08AACWC	Micron	TSOP	512	2048	F3
MT29F8G08DAAWC-ET	Micron	TSOP	2x 512	2048	F3
MT29F16G08FAAWC	Micron	TSOP	2x 1024	2048	F3
HY27US08281A-T	Hynix	TSOP	16	512	F1
HY27US08281A-U	Hynix	USOP	16	512	F1
HY27US08561A-T	Hynix	TSOP	32	512	F2
HY27US08561A-U	Hynix	USOP	32	512	F2
HY27US08121B-T	Hynix	TSOP	64	512	F2
HY27US08121B-U	Hynix	USOP	64	512	F2
HY27US081G1M-T	Hynix	TSOP	128	512	F2
HY27US081G1M-U	Hynix	USOP	128	512	F2
HY27UF081G2A-T	Hynix	TSOP	128	2048	F1
HY27UF081G2A-U	Hynix	USOP	128	2048	F1
HY27UF082G2A-T	Hynix	TSOP	256	2048	F2
HY27UF082G2B-T	Hynix	TSOP	256	2048	F3
HY27UF082G2A-U	Hynix	USOP	256	2048	F2
HY27UF082G2B-U	Hynix	USOP	256	2048	F3
HY27UF084G2B-T	Hynix	TSOP	512	2048	F3
HY27UF084G2M-T	Hynix	TSOP	512	2048	F2
HY27UF084G2M-U	Hynix	USOP	512	2048	F2
HY27UG088G5B-T	Hynix	TSOP	2x 512	2048	F3
HY27UG088G5M-T	Hynix	TSOP	2x 512	2048	F2
HY27UH08AG5B-T	Hynix	TSOP	2x 1024	2048	F3
HY27UH08AG5M-T	Hynix	TSOP	2x 1024	2048	F2
HY27UK08BGFM	Hynix	TSOP	4x 1024	2048	F2
NAND512R3A2C-N	Numonyx	TSOP	64	512	F2
NAND01GR3B2C-N	Numonyx	TSOP	128	2048	F1
MT29F2G08ABCWP	Micron	TSOP	256	2048	F1
MT29F4G08ABCWC	Micron	TSOP	512	2048	F3
HY27SF081G2A-T	Hynix	TSOP	128	2048	F1
HY27SF081G2A-U	Hynix	USOP	128	2048	F1
HY27SF082G2B-T	Hynix	TSOP	256	2048	F3
K9F5608U0D-W	Samsung	Wafer	32	512	F3
K9F5608U0D-J	Samsung	FBGA	32	512	F3
K9F1208U0C-W	Samsung	Wafer	64	512	F4
K9F1208U0C-J	Samsung	FBGA	64	512	F4
K9F1G08U0B-W	Samsung	Wafer	128	2048	F1

Part. Number	Manufacturer	Package	Capacity (MB) (2x = 2 Chip Select)	Page Size (B)	EVK525-AT90USB1286-usbdevice_ms_nf_df_sd-2_0_0
K9F2G08U0A-I	Samsung	ULGA	256	2048	F3
K9F4G08U0A-W	Samsung	Wafer	512	2048	F3
K9F4G08U0A-I	Samsung	ULGA	512	2048	F3
K9K8G08U1A-I	Samsung	ULGA	2x 512	2048	F3
NAND128W3Axx-ZA	Numonyx	VFBGA	16	512	F2
NAND256W3Axx-ZA	Numonyx	VFBGA	32	512	F2
NAND512W3A2C-ZA	Numonyx	VFBGA	64	512	F2
NAND01GW3B2C-ZA	Numonyx	VFBGA	128	2048	F1
NAND01GW3A2B-KGD	Numonyx	Wafer	128	512	F3
NAND02GW3B2D-ZA	Numonyx	VFBGA	256	2048	F3
NAND04GW3B2D-ZL	Numonyx	LGA52	512	2048	F3
NAND08GW3B4C-ZL	Numonyx	LGA52	2x 512	2048	F3
NAND08GW3B2C-ZL	Numonyx	LGA52	1024	2048	F3
MT29F4G08AACHC	Micron	VFBGA	512	2048	F3
MT29F4G08AACC3	Micron	ULGA	512	2048	F3
MT29F8G08EACC3	Micron	ULGA	2x 512	2048	F3
HY27US08561A-F	Hynix	FBGA	32	512	F2
HY27US08121B-F	Hynix	FBGA	64	512	F2
HY27UF081G2A-F	Hynix	FBGA	128	2048	F1
HY27UF082G2B-F	Hynix	FBGA	256	2048	F3
HY27UG088GDB-U	Hynix	ULGA	2x 512	2048	F3
HY27UG088GDM-U	Hynix	ULGA	2x 512	2048	F2
K9F5608R0D-J	Samsung	FBGA	32	512	F3
K9F1208R0C-J	Samsung	FBGA	64	512	F4
K9F1G08R0B-J	Samsung	FBGA	128	2048	F4
K9F2G08R0A-W	Samsung	Wafer	256	2048	F3
K9F2G08R0A-J	Samsung	FBGA	256	2048	F3
NAND512R3A2C-ZA	Numonyx	VFBGA	64	512	F2
NAND01GR3B2B-ZA	Numonyx	VFBGA	128	2048	F1
NAND01GR3B2C-ZA	Numonyx	VFBGA	128	2048	F1
NAND02GR3B2C-ZA	Numonyx	VFBGA	256	2048	F2
NAND02GR3B2D-ZA	Numonyx	VFBGA	256	2048	F3
NAND04GR3B2D-ZL	Numonyx	LGA52	512	2048	F3
NAND08GR3B4C-ZL	Numonyx	LGA52	2x 512	2048	F3
NAND08GR3B2C-ZL	Numonyx	LGA52	1024	2048	F3
MT29F4G08ABCHC	Micron	VFBGA	512	2048	F3
MT29F4G08ABCC3	Micron	ULGA	512	2048	F3
HY27SF081G2A-F	Hynix	FBGA	128	2048	F1

Note F1: The NandFlash software driver is optiomized to support a specific feature of the NandFlash (ex: copy back feature).
This optimizations permit to have a FAST write access.

Note F2: The NandFlash software driver is optiomized to support a specific feature of the NandFlash (ex: copy back feature).
This optimizations permit to have a FAST write access for large file (not for little file).

Note F3 : The NandFlash software driver is not optiomized to support a specific feature of the NandFlash (ex: copy back feature).
The write access is normal.

Note F4 : The NandFlash device don't have specific feature (ex: copy back feature).
The write access is slow.

Disclaimer:

The information provided in this table is based on evaluations performed by Atmel on some of the memory products listed. Results have been extended to similar devices within a product family assuming they behave identically. This information is expected to be accurate however Atmel makes no representations or warranties with respect to the accuracy or completeness of the contents of this document. Atmel does not make any commitment to update the information contained herein.

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