



12815 NE 124th St STE#D, Kirkland, WA-98034

ASFC64G31T5-51BIN vs ASFC64G31T5A-51BIN vs ASFC64G31T5B-51BIN Comparison

Part Number & result Parameter	ASFC64G31T5-51BIN	ASFC64G31T5A-51BIN	ASFC64G31T5B-51BIN
Product Description	eMMCv5.1 , Rev.0	eMMC v5.1, rev.A	eMMCv5.1 , Rev.B
Capacity	64GB	64GB	64GB
Bus Width	x1 (default), x4 & x8	x1 (default) , x4 & x8	x1 (default) , x4 & x8
eMMC Version	v5.1 (backward compatible with previous MMC versions)	v5.1 (backward compatible with previous MMC versions)	v5.1 (backward compatible with previous MMC versions)
Operating Power Supply (Controller)	VccQ = 1.70V ~ 1.95V or 2.7V ~ 3.6V	VccQ = 1.70V ~ 1.95V or 2.7V ~ 3.6V	VccQ = 1.70V ~ 1.95V or 2.7V ~ 3.6V
Operating Power Supply (NAND)	Vcc = 2.7V~3.6V	Vcc = 2.7V~3.6V	Vcc = 2.7V~3.6V
Operating Temperature	Industrial (Ta = -40°C ~ 85°C)	Industrial (Ta = -40°C ~ 85°C)	Industrial (Ta = -40°C ~ 85°C)
Storage Temperature	-40°C ~ 85°C	-40°C ~ 85°C	-40°C ~ 85°C
Clock Frequency	I/F Clock: 0~200MHz (Max) I/F Boot Freq: 0~52MHz	I/F Clock: 0~200MHz (Max) I/F Boot Freq: 0~52MHz	I/F Clock: 0~200MHz (Max) I/F Boot Freq: 0~52MHz
Interface Timing Mode	HS200/ HS400	HS200/ HS400	HS200/ HS400
NAND Flash Component	Density: 512Gb Die:1, TLC (BiSC5)	Density: 512Gb Die:1, TLC (BiSC5)	Density: 512Gb Die:1, TLC (BiSC5)
Enhance mode support Configure pSLC mode	Yes	Yes	Yes
Boot Partition Size	32,256KB	32,256KB	32,256KB
RPMB Size	4096KB	4096KB	4096KB
Sequential Performance (HS400)	Write: 222MB/s Read = 301MB/s	Write: 220MB/s Read =300MB/s	Write: 215MB/s Read = 295MB/s
Active Power Consumption	VCCQ = 147mA VCC = 82mA	VCCQ = 135mA VCC = 95mA	VCCQ = 132mA VCC = 93mA
Standby Power Consumption	VCCQ = 60uA VCC = 20uA	VCCQ = 100uA VCC = 100uA	VCCQ = 100uA VCC = 100uA
Package Type	153-ball TFBGA	153-ball TFBGA	153-ball TFBGA
PackageOuter Dimensions	11.5 x 13 x 1.2mm	11.5 x 13 x 1.4mm	11.5 x 13 x 1.2mm
Package Ball pitch/matrix	0.5mm pitch, 6.5mm x 6.5mm	0.5mm pitch, 6.5mm x 6.5mm	
Package Material	Pb and Halogen Free	Pb and Halogen Free	Same
Pin to Pin Compatible	Yes.		