

# AMD EXPO™ Technology Memory Profile Self-Certification Report

[General Module Information]	
Module Manufacturer:	G.SKILL International Enterprise Co., Ltd.
Module Part Number:	F5-6000J3038F16GX2-TZ5NR
Module Revision:	1.0
Module Size:	2 x 16 Gbytes
Ranks per channel:	1
JEDEC Memory Speed:	DDR5-4800
Module Type:	Unbuffered DIMM (UDIMM)
SDRAM Manufacturer:	SKHynix
DRAM Stepping:	
Error Check/Correction:	None

[AMD EXPO Profile Support]	
AMD EXPO Version	1.0
Profile 0 Enabled	Yes
Profile 0 DIMMs per Channel	1
Profile 0 Enhanced Block Enabled	NO
Profile 1 Enabled	NO
Profile 1 DIMMs per Channel	None
Profile 1 Enhanced Block Enabled	NO

[EXPO Profile 0 Voltage]	
SDRAM VDD (V)	1.35 V
SDRAM VDDQ (V)	1.35 V
SDRAM VPP (V)	1.80 V

[EXPO Profile 0 Timing]	
DDR Data Rate MT/S	6000 MT/s
tCK (ps / nCK)	333
tCAS (ps / nCK)	9993
tRCD (ps / nCK)	12659
tRP (ps / nCK)	12659
tRAS (ps / nCK)	31980
tWR (ps / nCK)	29981
tRFC1 (ps / nCK)	295 ns
tRFC2 (ps / nCK)	160 ns
tRFCsb (ps / nCK)	130 ns

[EXPO Profile 0 Enhanced Timing]	
tRRD_L (ps / nCK)	None
tCCD_L (ps / nCK)	None
tCCD_L_WR (ps / nCK)	None
tCCD_L_WR2 (ps / nCK)	None
tFAW (ps / nCK)	None
tWTR_L (ps / nCK)	None
tWTR_S (ps / nCK)	None
tRTP (ps / nCK)	None

[EXPO Profile 1 Voltage]	
SDRAM VDD (V)	None
SDRAM VDDQ (V)	None
SDRAM VPP (V)	None

[EXPO Profile 1 Timing]	
DDR Data Rate MT/S	None
tCK (ps / nCK)	None
tCAS (ps / nCK)	None
tRCD (ps / nCK)	None
tRP (ps / nCK)	None
tRAS (ps / nCK)	None
tWR (ps / nCK)	None
tRFC1 (ps / nCK)	None

tRFC2 (ps / nCK)	None	
tRFCsb (ps / nCK)	None	

[EXPO Profile 1 Enhanced Timing]		
tRRD_L (ps / nCK)	None	
tCCD_L (ps / nCK)	None	
tCCD_L_WR (ps / nCK)	None	
tCCD_L_WR2 (ps / nCK)	None	
tFAW (ps / nCK)	None	
tWTR_L (ps / nCK)	None	
tWTR_S (ps / nCK)	None	
tRTP (ps / nCK)	None	

[EXPO Tested Platforms1]	[BIOS Version1]	[Processor1]	[ProcODT2]	[RTT2]	[DrvStr2]
AsRock X670E Steel Legend	1.29.AS01	7950X	Auto	Auto	Auto
AsRock X670E Taichi	1.29.AS01	7950X	Auto	Auto	Auto
ASUS ROG CROSSHAIR X670E GENE	1602	7950X	Auto	Auto	Auto
ASUS ROG CROSSHAIR X670E HERO	1602	7800X3D	Auto	Auto	Auto
ASUS ROG STRIX B650E-F GAMING WIFI	1654	7800X3D	Auto	Auto	Auto
Gigabyte B650E AORUS Master	F8d	7900X	Auto	Auto	Auto
Gigabyte X670 AORUS ELITE AX	F11d	7800X3D	Auto	Auto	Auto
Gigabyte X670E AORUS Master	F13d	7700X	Auto	Auto	Auto
MSI MAG B650 TOMAHAWK WIFI	170	7700X	Auto	Auto	Auto
MSI MPG B650 CARBON WIFI	160	7700X	Auto	Auto	Auto
MSI PRO B650-P WIFI	170	7700X	Auto	Auto	Auto
MSI PRO X670-P WIFI	1A0	7700X	Auto	Auto	Auto

**Notes:**

1. The list of tested platforms (which includes the Motherboard, BIOS, and Processor configurations) is not an exhaustive list of supported configurations. It is solely a set of tested configurations to demonstrate AMD EXPO™ profile viability on actual hardware.
2. ProcODT, RTT, and DrvStr values per configuration, Auto, or selected value.