



## AMD EXPO™ Technology Memory Profile Self-Certification Report

<b>[General Module Information]</b>	
<b>Module Manufacturer:</b>	Kingston Technology
<b>Module Part Number:</b>	KF560C36BBEK2-32 (Kit of 2) KF560C36BBE-16 (x2) KF560C36BWEK2-32 (Kit of 2) KF560C36BWE-16 (x2)
<b>Module Revision:</b>	1.0
<b>Module Size:</b>	16 GBytes
<b>Ranks per channel:</b>	1
<b>JEDEC Memory Speed:</b>	DDR5-4800
<b>Module Type:</b>	Unbuffered DIMM (UDIMM)
<b>SDRAM Manufacturer:</b>	SK Hynix
<b>DRAM Stepping:</b>	M
<b>Error Check/Correction:</b>	None

<b>[AMD EXPO Profile Support]</b>	
<b>AMD EXPO Version</b>	1.0
<b>Profile 0 Enabled</b>	Yes
<b>Profile 0 DIMMs per Channel</b>	1
<b>Profile 1 Enhanced Block Enabled</b>	No
<b>Profile 1 Enabled</b>	Yes
<b>Profile 1 DIMMs per Channel</b>	1
<b>Profile 1 Enhanced Block Enabled</b>	No

<b>[EXPO Profile 0 Voltage]</b>	
SDRAM VDD (V)	1.35 V
SDRAM VDDQ (V)	1.35 V
SDRAM VPP (V)	1.80 V

<b>[EXPO Profile 0 Timing]</b>		
DDR Data Rate MT/S	6000 MT/s	
tCK (ps / nCK)	333 ps	
tCAS (ps / nCK)	12000 ps	36 nCK
tRCD (ps / nCK)	12666 ps	38 nCK
tRP (ps / nCK)	12666 ps	38 nCK
tRAS (ps / nCK)	26666 ps	80 nCK
tRW (ps / nCK)	30000ps	90 nCK
tRFC1 (ns)	295 ns	
tRFC2 (ns)	160 ns	
tRFCsb (ns)	130 ns	

<b>[EXPO Profile 0 Enhanced Timing]</b>		
tRRD_L (ps / nCK)	N/A	
tCCD_L (ps / nCK)	N/A	
tCCD_L_WR (ps / nCK)	N/A	
tCCD_L_WR2 (ps / nCK)	N/A	
tFAW (ps / nCK)	N/A	
tWTR_L (ps / nCK)	N/A	
tWTR_S (ps / nCK)	N/A	
tRTP (ps / nCK)	N/A	

<b>[EXPO Profile 1 Voltage]</b>	
SDRAM VDD (V)	1.25 V
SDRAM VDDQ (V)	1.25 V
SDRAM VPP (V)	1.80 V

<b>[EXPO Profile 1 Timing]</b>		
DDR Data Rate MT/S	5600 MT/s	
tCK (ps / nCK)	357 ps	
tCAS (ps / nCK)	12857 ps	36 nCK
tRCD (ps / nCK)	13571 ps	38 nCK
tRP (ps / nCK)	13571 ps	38 nCK
tRAS (ps / nCK)	28571 ps	80 nCK
tRC (ps / nCK)	42142 ps	118 nCK
tRW (ps / nCK)	30000ps	84 nCK
tRFC1 (ns)	295 ns	
tRFC2 (ns)	160 ns	
tRFCsb (ns)	130 ns	

<b>[EXPO Profile 1 Enhanced Timing]</b>		
tRRD_L (ps / nCK)	N/A	
tCCD_L (ps / nCK)	N/A	
tCCD_L_WR (ps / nCK)	N/A	
tCCD_L_WR2 (ps / nCK)	N/A	
tFAW (ps / nCK)	N/A	
tWTR_L (ps / nCK)	N/A	
tWTR_S (ps / nCK)	N/A	
tRTP (ps / nCK)	N/A	

[EXPO Tested Platforms1]	[BIOS Version1]	[Processor1]	[ProcODT2]	[RTT2]	[DrvStr2]
GIGABYTE X670 AORUS XTREME	F5a	Ryzen 5 7600X	Auto	Auto	Auto
MSI PRO X670-P	1.21	Ryzen 5 7600X	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.*