



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

<b>[General Module Information]</b>	
<b>Module Manufacturer:</b>	Kingston
<b>Module Part Number:</b>	KF572RH38RBK4-128 (Kit of 4) KF572RH38RB-32 (x4)
<b>Serial Number:</b>	N/A
<b>Module Revision:</b>	1
<b>Module Size:</b>	32GB
<b>Ranks per channel:</b>	1
<b>JEDEC Memory Speed:</b>	6400
<b>Module Type:</b>	RDIMM
<b>RDIMM RCD Vendor:</b>	IDT(Renesas)
<b>SDRAM Manufacturer:</b>	SK Hynix
<b>SPD Byte 552:</b>	80
<b>SPD Byte 553:</b>	AD
<b>DRAM Stepping:</b>	4.D
<b>SPD Byte 554:</b>	4D
<b>SPD Byte 530:</b>	33
<b>PMIC Vendor:</b>	IDT(Renesas)
<b>Error Check/Correction:</b>	Yes

<b>[AMD EXPO Profile Support]</b>	
<b>AMD EXPO Version</b>	1.1
<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>	
<b>SDRAM VDD (V)</b>	1.4V
<b>SDRAM VDDQ (V)</b>	1.4V
<b>SDRAM VPP (V)</b>	1.8V



<b>[EXPO Profile 0 Timing]</b>		
DDR Data Rate MT/S	7200(MT/s)	
tCK (ps / nCK)	277 ps	
tCAS (ps / nCK)	10556 ps	38 nCK
tRCD (ps / nCK)	13889 ps	50 nCK
tRP (ps / nCK)	13889 ps	50 nCK
tRAS (ps / nCK)	32223 ps	116 nCK
tRC (ps / nCK)	46112 ps	166 nCK
tRW (ps / nCK)	30000 ps	108 nCK
tRFC1 (ns)	410 ns	
tRFC2 (ns)	220 ns	
tRFCsb (ns)	190 ns	

<b>[EXPO Profile 0 Enhanced Timing]</b>		
tRRD_L (ps / nCK)	5000 ps	18 nCK
tCCD_L (ps / nCK)	5000 ps	18 nCK
tCCD_L_WR (ps / nCK)	20000 ps	72 nCK
tCCD_L_WR2 (ps / nCK)	10000 ps	36 nCK
tFAW (ps / nCK)	8889 ps	32 nCK
tWTR_L (ps / nCK)	10000 ps	36 nCK
tWTR_S (ps / nCK)	2223 ps	8 nCK
tRTP (ps / nCK)	7500 ps	27 nCK

<b>[EXPO Profile 1 Voltage]</b>	
SDRAM VDD (V)	1.4V
SDRAM VDDQ (V)	1.4V
SDRAM VPP (V)	1.8V

<b>[EXPO Profile 1 Timing]</b>		
DDR Data Rate MT/S	6800(MT/s)	
tCK (ps / nCK)	294 ps	
tCAS (ps / nCK)	10588 ps	36 nCK
tRCD (ps / nCK)	14118 ps	48 nCK
tRP (ps / nCK)	14118 ps	48 nCK
tRAS (ps / nCK)	32059 ps	109 nCK
tRC (ps / nCK)	46177 ps	157 nCK



tRW (ps / nCK)	30000 ps	102 nCK
tRFC1 (ns)	410 ns	
tRFC2 (ns)	220 ns	
tRFCsb (ns)	190 ns	

[EXPO Profile 1 Enhanced Timing]		
tRRD_L (ps / nCK)	5000 ps	17 nCK
tCCD_L (ps / nCK)	5000 ps	17 nCK
tCCD_L_WR (ps / nCK)	20000 ps	68 nCK
tCCD_L_WR2 (ps / nCK)	10000 ps	34 nCK
tFAW (ps / nCK)	9411 ps	32 nCK
tWTR_L (ps / nCK)	10000 ps	34 nCK
tWTR_S (ps / nCK)	2352 ps	8 nCK
tRTP (ps / nCK)	7647 ps	26 nCK

[EXPO Tested Platforms]	[BIOS Version]	[Processor]	[ProcODT2]	[RTT2]	[DrvStr2]
ASUS Pro WS TRX50-SAGE WIFI	1203	Ryzen Threadripper 9960X	AUTO	AUTO	AUTO

*Notes:*

- 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.*
- ProcODT, RTT, and DrvStr values per configuration, Auto, or selected value.*
- Diagnostics used:*  
*MemTest86 (6.2 or later) for a minimum of 12 hours or 100 loops;*  
*Prime 95(30.8 build 17 or later) Large FFT torture test for a minimum of 12 hours;*  
*3DMark(2.16.7117 or later) Firestrike stress test for a minimum of 12 hours or 5000 loops;*  
*Reboot test for a minimum of 50 cycles to ensure ACPI state transition stability.*  
*AMD uses MemTestPro and 3DMark Firestrike and recommends MemTestPro version 6.2 or later and 3DMark Dandia version 2.16.7117 or later.*  
*In addition, a reboot test (for example, one with 50 reboot cycles) should be performed to ensure ACPI state transition stability.*