



AMD EXPO™ Technology Memory Profile Self-Certification Report

[General Module Information]	
Module Manufacturer:	Kingston
Module Part Number:	KF572RH38RBK8-128 (Kit of 8) KF572RH38RBK4-64 (x2) KF572RH38RB-16 (x8)
Serial Number:	N/A
Module Revision:	1
Module Size:	16GB
Ranks per channel:	1
JEDEC Memory Speed:	6400
Module Type:	RDIMM
RDIMM RCD Vendor:	IDT(Renesas)
SDRAM Manufacturer:	SK Hynix
SPD Byte 552:	80
SPD Byte 553:	AD
DRAM Stepping:	4.1
SPD Byte 554:	41
SPD Byte 530:	31
PMIC Vendor:	IDT(Renesas)
Error Check/Correction:	Yes

[AMD EXPO Profile Support]	
AMD EXPO Version	1.1
Profile 0 Enabled	Yes
Profile 0 DIMMs per Channel	1
Profile 1 Enhanced Block Enabled	No
Profile 1 Enabled	Yes
Profile 1 DIMMs per Channel	1
Profile 1 Enhanced Block Enabled	No

[EXPO Profile 0 Voltage]	
SDRAM VDD (V)	1.4V
SDRAM VDDQ (V)	1.4V



SDRAM VPP (V)	1.8V
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[EXPO Profile 0 Timing]		
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)	295 ns	
tRFC2 (ns)	160 ns	
tRFCsb (ns)	130 ns	

[EXPO Profile 0 Enhanced Timing]		
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

[EXPO Profile 1 Voltage]	
SDRAM VDD (V)	1.4V
SDRAM VDDQ (V)	1.4V
SDRAM VPP (V)	1.8V

[EXPO Profile 1 Timing]		
DDR Data Rate MT/S	6800(MT/s)	
tCK (ps / nCK)	294 ps	
tCAS (ps / nCK)	11177 ps	38 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)	295 ns	
tRFC2 (ns)	160 ns	
tRFCsb (ns)	130 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)	9412 ps	32 nCK
tWTR_L (ps / nCK)	10000 ps	34 nCK
tWTR_S (ps / nCK)	2353 ps	8 nCK
tRTP (ps / nCK)	7647 ps	26 nCK

[EXPO Tested Platforms]	[BIOS Version]	[Processor]	[ProcODT2]	[RTT2]	[DrvStr2]
ASUS Pro WS WRX90E-SAGE SE	1203	Ryzen Threadripper PRO 9955WX	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.

3. 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.