RAM Memory Test Report

Test Date: 17 March 2026, 09:14 NZDT

System: AMD Ryzen 7 5700G / Gigabyte X570 I AORUS PRO WIFI

RAM Specifications

Brand / Model:	Crucial CT32G4DFD832A.M16FF
Configuration:	2 x 32GB (64GB Total)
Type:	DDR4
Speed:	3200 MT/s (PC4-25600)
Form Factor:	DIMM (Desktop)
Slots:	DIMM 1 (Channel A) + DIMM 1 (Channel B)
Dual Channel:	Yes

Memory Test Results

Test Method: Python memory integrity test (pattern write/read, hash verify, walking ones)

Coverage: 56GB tested in 8 x 7168MB blocks (headroom reserved for OS)

Duration: 67 seconds

Block	Size	0xAA	0x55	Hash Verify	Walking Ones
Block 0	7168 MB	PASS	PASS	PASS	PASS
Block 1	7168 MB	PASS	PASS	PASS	PASS
Block 2	7168 MB	PASS	PASS	PASS	PASS
Block 3	7168 MB	PASS	PASS	PASS	PASS
Block 4	7168 MB	PASS	PASS	PASS	PASS
Block 5	7168 MB	PASS	PASS	PASS	PASS
Block 6	7168 MB	PASS	PASS	PASS	PASS
Block 7	7168 MB	PASS	PASS	PASS	PASS

OVERALL RESULT: ALL TESTS PASSED - 0 ERRORS

Tests performed: Pattern fill (0xAA, 0x55), random data write with SHA-256 hash verification, and walking ones bit test across all allocated memory blocks.

RAM info sourced from DMI/SMBIOS via dmidecode.