

CPUID HWMonitor

File View Tools Help

Sensor

Sensor	Value	Min	Max
DESKTOP-NJU4VCT			
ASUSTeK COMPUTER INC. PR...			
Voltages			
VIN7	0.680 V	0.680 V	0.680 V
VIN8	0.640 V	0.216 V	1.168 V
VIN9	0.616 V	0.608 V	0.616 V
VIN10	1.000 V	0.992 V	1.000 V
VIN11	1.000 V	1.000 V	1.000 V
VIN12	0.904 V	0.888 V	0.904 V
VIN13	1.048 V	1.048 V	1.048 V
VIN15	1.648 V	1.640 V	1.648 V
VIN16	0.896 V	0.896 V	0.896 V
VIN17	0.968 V	0.968 V	0.976 V
VIN18	0.008 V	0.008 V	1.160 V
VIN14	0.056 V	0.056 V	0.576 V
+5V	5.000 V	5.000 V	5.000 V
+3.3V	3.296 V	3.296 V	3.296 V
+12V	12.000 V	11.904 V	12.000 V
VIN3	0.072 V	0.056 V	0.576 V
VIN4	1.792 V	1.792 V	1.792 V
VCORE	0.710 V	0.240 V	1.296 V
VIN6	1.048 V	1.048 V	1.048 V
VIN7	1.232 V	1.232 V	1.232 V
Temperatures			
Fans			
Utilization			
System Memory	16.0 %	16.0 %	17.0 %
Intel Core i7 13700K			
G.Skill F5-6600J3440G16G			
Voltages			
VDD (Node A)	1.410 V	1.410 V	1.425 V
VDDQ	1.410 V	1.410 V	1.425 V
VDDP	1.800 V	1.410 V	1.815 V
VOUT 1.8V	1.815 V	1.800 V	1.815 V
VOUT 1.0V	1.005 V	0.975 V	1.005 V
Temperatures			
Core	35.3 °C	34.8 °C	35.3 °C
G.Skill F5-6600J3440G16G			
Voltages			
VDD (Node A)	1.410 V	1.395 V	1.410 V
VDDQ	1.410 V	1.410 V	1.425 V
VDDP	1.815 V	1.800 V	1.815 V
VOUT 1.8V	1.800 V	1.800 V	1.815 V
VOUT 1.0V	0.990 V	0.960 V	1.005 V
Temperatures			
Core	35.3 °C	35.0 °C	35.3 °C
Samsung SSD 980 PRO 1TB			
Temperatures			
Assembly	37.0 °C	37.0 °C	37.0 °C
Utilization			
Space (c)	20.2 %	20.2 %	20.2 %

Ready

NUM

ASROCK TIMING CONFIGURATOR

PRIME Z790-P

Channel	IA0	IA1	IB0	IB1
VendorID / VDD / VDDQ	None	None	Richtek / 1.410v / 1.410v	Richtek / 1.815v / 1.815v
Channels #	Quad			
FSB : DRAM	1:30			
DRAM Frequency	6000			
Gear Mode	2			
Realtime Timing	Enabled			

CAS# Latency (tCL)	36	tREFI	5851
RAS# to CAS# Delay (tRCD)	36	tCKE	23
Row Precharge Time (tRP)	36	tRRD_sg	16
RAS# Active Time (tRAS)	96	tRRD_dg	8
Command Rate (CR)	2	tRRD_dr	14
		tRRD_dd	16
Write Recovery Time (tWR)	99	tRDWR_sg	20
Refresh Cycle Time 2 (tRFC2)	527	tRDWR_dg	20
Refresh Cycle per Bank (tRFCpb)	428	tRDWR_dr	22
RAS to RAS Delay (tRRD_L)	15	tRDWR_dd	24
RAS to RAS Delay (tRRD_S)	8	tWRRD_sg	76
Write to Read Delay (tWTR_L)	34	tWRRD_dg	54
Write to Read Delay (tWTR_S)	12	tWRRD_dr	14
Read to Precharge (tRTP)	22	tWRRD_dd	14
Four Activate Window (tFAW)	32	tWRWR_sg	32
CAS Write Latency (tCWL)	36	tWRWR_dg	8
		tWRWR_dr	14
		tWRWR_dd	14

RTL (MC0 C0 A1/A2)	25/67
RTL (MC0 C1 A1/A2)	25/62
RTL (MC1 C0 B1/B2)	25/68
RTL (MC1 C1 B1/B2)	25/63

Version 4.0.14

CPU-Z

CPU | Mainboard | Memory | SPD | Graphics | Bench | About

Memory Slot Selection

Slot #2	DDR5	Module Size	16 GBytes
Max Bandwidth	DDR5-6600 (3300 MHz)	SPD Ext.	XMP 3.0
Module Manuf.	G.Skill	Week/Year	
DRAM Manuf.	SK Hynix	Buffered	
Part Number	F5-6600J3440G16G	Correction	
Serial Number		Registered	

Timings Table

	JEDEC #5	JEDEC #6	JEDEC #7	XMP-6600
Frequency	2166 MHz	2400 MHz	2400 MHz	3300 MHz
CAS# Latency	36.0	40.0	42.0	34.0
RAS# to CAS#	37	40	40	40
RAS# Precharge	37	40	40	40
tRAS	70	77	77	105
tRC	106	117	117	145
Command Rate				
Voltage	1.10 V	1.10 V	1.10 V	1.400 V

CPU-Z Ver. 2.04.0.x64 Tools Validate Close