

Review Intel DN2800MT

Preface

This short review adds the missing benchmark values for the Half-Height Mini-ITX Mainboard DN2800MT.

Views



Technical Specifications

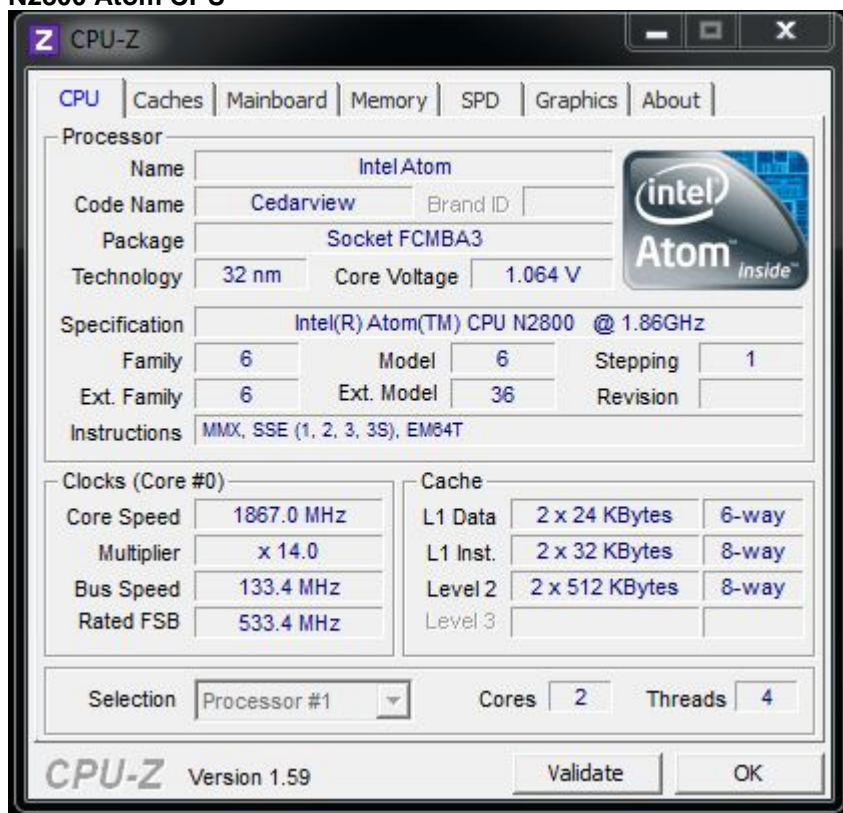
Model	DN2800MT
Form-Factor	Half-Height Mini-ITX
CPU	Intel® Atom™ N2800 (2x 1.86GHz) 1MB Cache, With Hyper-Threading
Chipset	Intel NM10 Express Chipset
RAM	2x SO-DDR3 800/1066, 4GB max, Single channel
Graphics	VGA + HDMI + LVDS + eDP
Audio	2+2 Channel HD Audio
LAN	1x Intel 10/100/1000 MBit
Rear I/O	<ul style="list-style-type: none"> - 4x USB 2.0 (2x with High-Current 1.3A) - 1x LAN RJ-45 - 2x Audio - 1x HDMI - 1x VGA - 1x DC-In (10-19V)
OS	Windows 7, MeeGo, Chrome OS, Linux
Internal I/O	<ul style="list-style-type: none"> - 2x SATA-II (3GB/s) - 4x USB 2.0 - 1x PCIe - 2x Mini-PCIe - Front Audio - SPDIF - 1x LPT - 2x RS232 - LVDS (Dual 24bit) - eDP (4-lane 24bit) - Z-U130 Flash Drive support - TPM stuffing option - Mobile SATA (SSD) support via Mini-PCIe - ExpressCard/34 support via Mini-PCIe

Benchmarks

In our tests, we used this hardware

- Intel DN2800MT Mini-ITX Mainboard
- 2x 1GB DDR3 PC3-8500S SO DIMM HYNIX
- 80GB INTEL SSD
- CD LW SLOT IN (CW-8124B)
- PicoPSU-90
- 84 Watt AC Adapter

N2800 Atom CPU



The screenshot shows the CPU-Z application window with the 'CPU' tab selected. The processor is identified as an Intel Atom Cedarview. The core speed is 1867.0 MHz, and the bus speed is 133.4 MHz. The cache configuration includes L1 Data (2 x 24 KBytes, 6-way), L1 Inst. (2 x 32 KBytes, 8-way), and Level 2 (2 x 512 KBytes, 8-way). The software also shows 2 cores and 4 threads.

Processor			
Name	Intel Atom		
Code Name	Cedarview	Brand ID	
Package	Socket FCMB A3		
Technology	32 nm	Core Voltage	1.064 V
Specification	Intel(R) Atom(TM) CPU N2800 @ 1.86GHz		
Family	6	Model	6
Ext. Family	6	Ext. Model	36
Stepping	1		
Revision			
Instructions	MMX, SSE (1, 2, 3, 3S), EM64T		

Clocks (Core #0)		Cache	
Core Speed	1867.0 MHz	L1 Data	2 x 24 KBytes 6-way
Multiplier	x 14.0	L1 Inst.	2 x 32 KBytes 8-way
Bus Speed	133.4 MHz	Level 2	2 x 512 KBytes 8-way
Rated FSB	533.4 MHz	Level 3	


Selection: Processor #1 Cores: 2 Threads: 4

CPU-Z Version 1.59 [Validate] [OK]

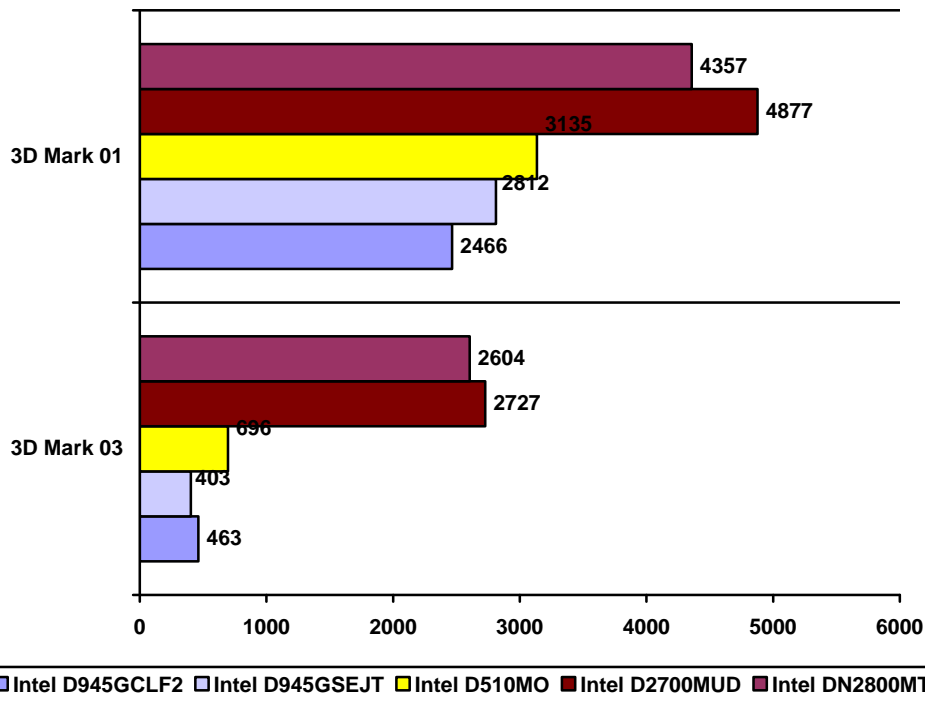
Windows 7 Leistungsindex

Bewertung und Verbesserung der Leistung des Computers

Mithilfe des Windows-Leistungsindex werden wichtige Systemkomponenten anhand einer Skala von 1,0 bis 7,9 bewertet.

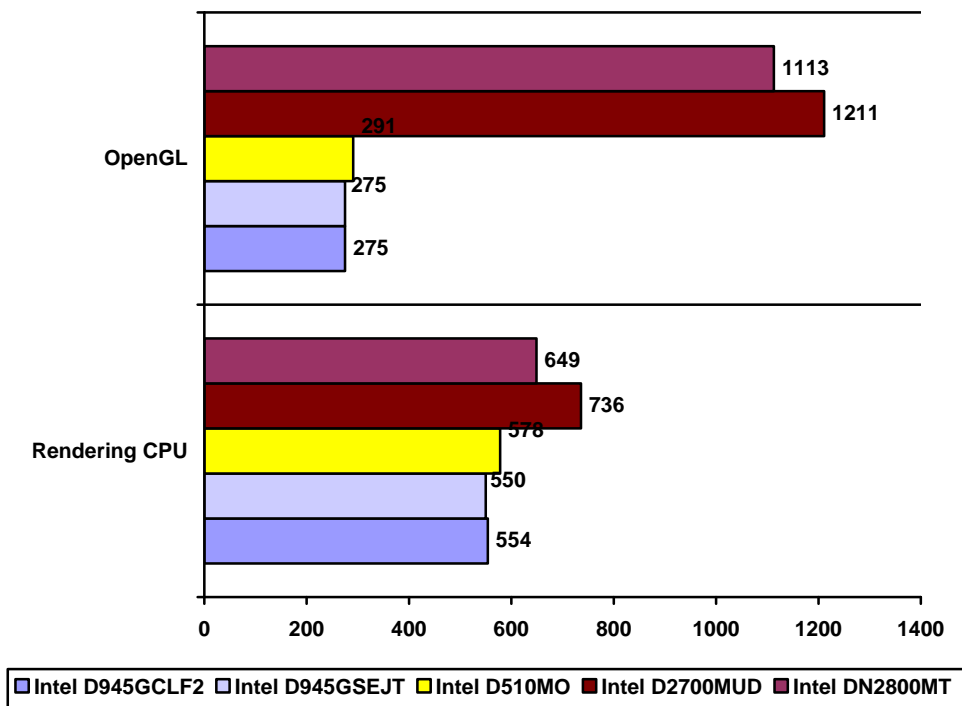
Komponente	Was wurde bewertet	Teilbewertung	Gesamtbewertung
Prozessor:	Berechnungen pro Sekunde	3,4	 <p>Ergibt sich aus der niedrigsten Teilbewertung</p>
Arbeitsspeicher (RAM):	Speichervorgänge pro Sekunde	5,0	
Grafik:	Desktopeistung für Windows Aero	5,9	
Grafik (Spiele):	3D-Business- und Gaminggrafikleistung	3,4	
Primäre Festplatte:	Datentransferrate	7,3	

3D Mark Test



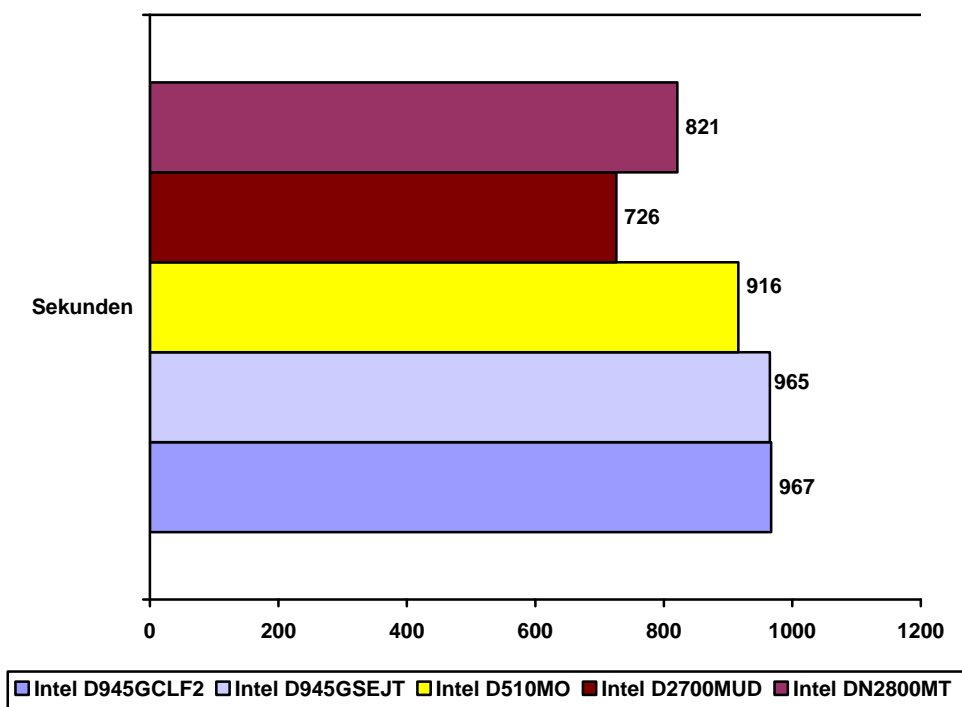
The new board has a much better graphics performance than the previous models.

Cinebench R10 Test



With Cinebench we see an increase of approx. 440% with graphics- and 30% with CPU-performance.

Super PI 8M Test



With Super PI the new CPU is 20% faster.

Power consumption

	D525MW	D2700MUD	DN2800MT
Bootphase	30W	28W	22W
Idle	22W	25W	19W
Last	30W	34W	23W
CD/DVD Load	29W	32W	21W
DVD	29W	35W	23W

When compared to the previous model D525MW, the D2700MUD needs approx. 3 watts more power.

Shop-Links

[Intel D2500CC \(Intel Atom 2x 1.86Ghz CPU, 2x LAN, 4x RS232\) \[LÜFTERLOS\]](#)

[Intel D2500HN \(Intel Atom 2x 1.86Ghz CPU\) \[LÜFTERLOS\]](#)

[Intel D2700DC \(Intel Atom 2x 2.13Ghz CPU, HDMI\) \[LÜFTERLOS\]](#)

[Intel D2700MUD \(Intel Atom 2x 2.13Ghz CPU, TPM, DVI\) \[LÜFTERLOS\]](#)

[Intel DN2800MT Half-Height \(Intel Atom 2x1.86Ghz CPU, 10-19VDC\) \[LÜFTERLOS\]](#)