Zotac H55-ITX

LINK (https://www.nexthardware.com/news/schede-madri/1986/zotac-h55-itx.htm)

Recensione della scheda mini-ITX di Zotac

Il sito anandtech.com ha recensito la scheda Zotac in formato mini-ITX H55-ITX.

Rispetto alle soluzioni mini-ITX sul mercato basate sul NVIDIA's GeForce 9300 e sul chipsets ION questa H55-ITX dispone di un chipset Intel H55 Express abbinato ad un socket LGA-1156 offrendo quindi il supporto alle CPU Intel Core i3, i5 e i7.

La scheda quindi offre due opzioni, quella di utilizzarla in un sistema a basso consumo affiancando alla scheda grafica integrata una cpu i3 oppure utilizzare un processore piu' prestante abbinata ad una scheda grafica di fascia media (nei test è stata utilizzata una ATI 5770):
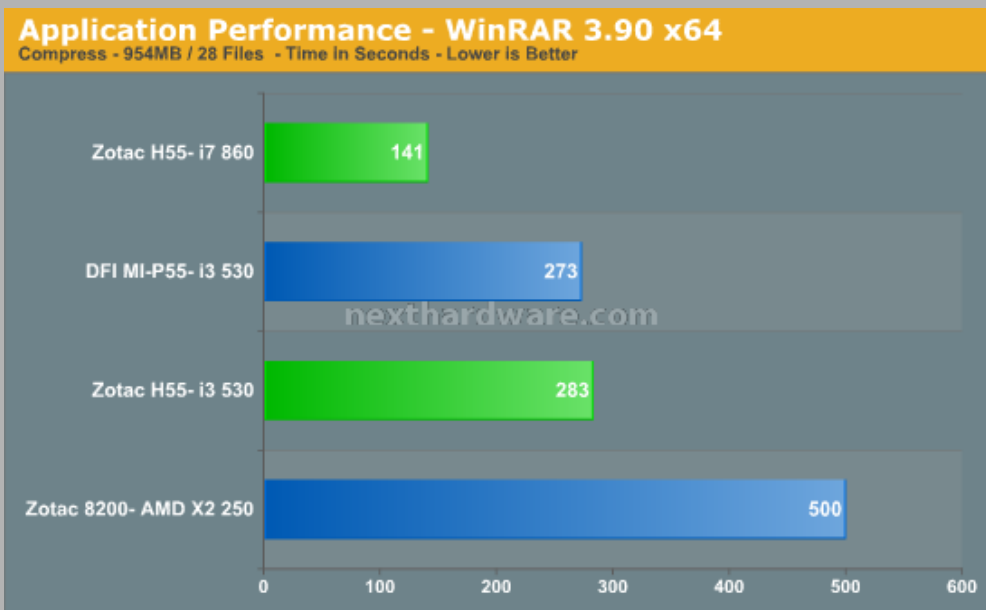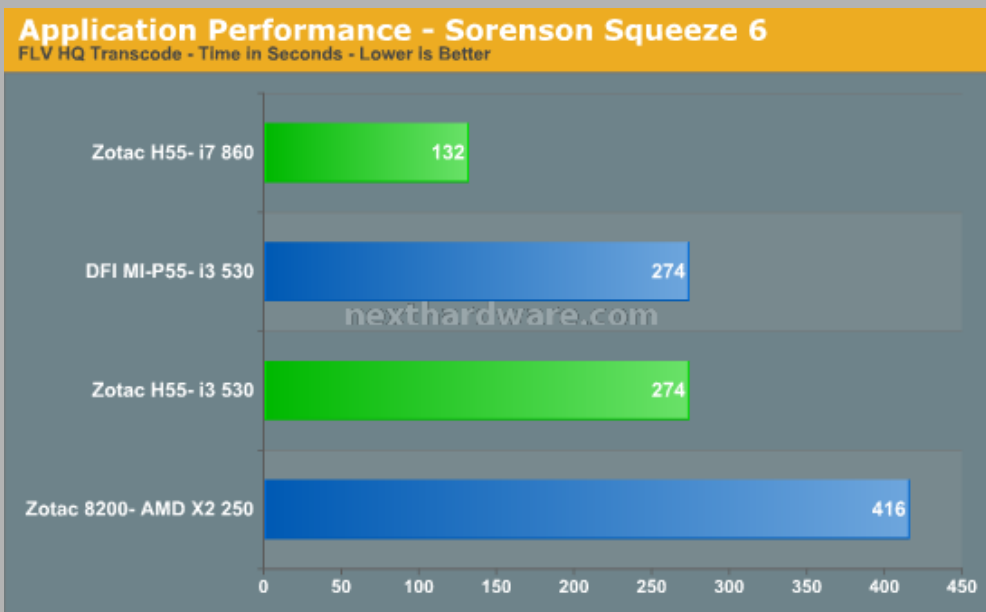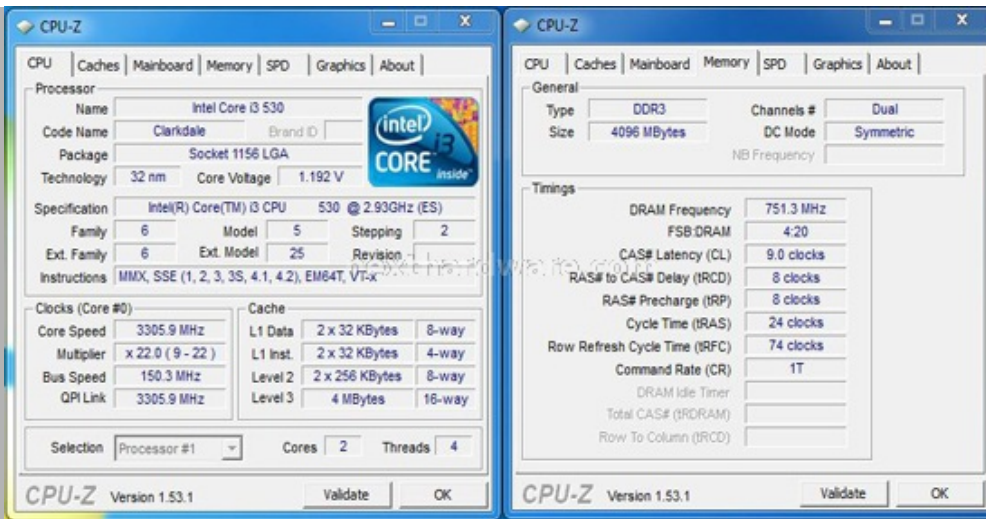
La motherboard offre uno slot PCI Express x16 ed un Mini PCI Express occupato dal modulo WiFi, un audio multicanale 7.1 gestito da un Realtek ALC885, 10 porte USB 2.0, uscita ottica digitale S/PDIF, sei porte SATA da 3.0GB/s ed una porta eSATA.
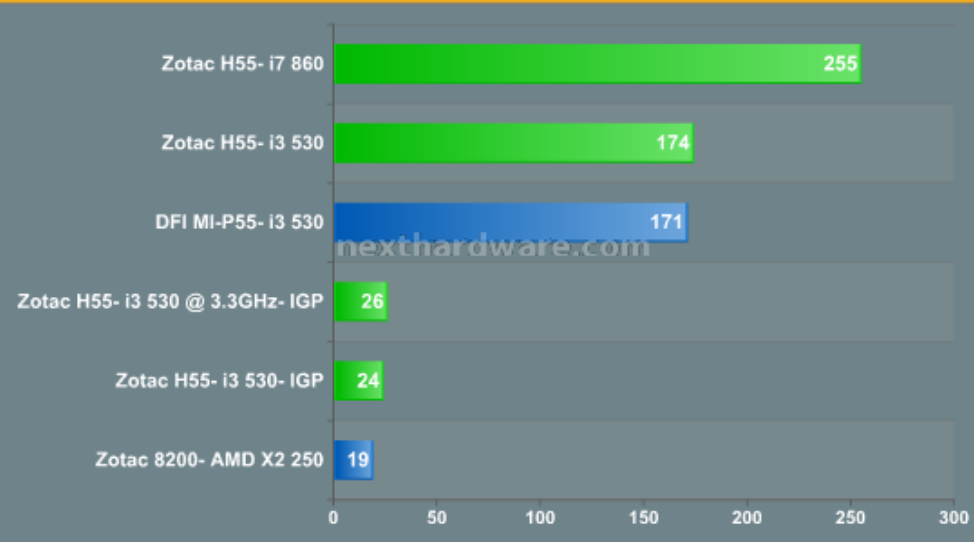
La scheda è disponibile ad un prezzo di 150$ circa.

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Zotac H55ITX-A-E	
Market Segment:	H55 General Use/HTPC
CPU Interface:	LGA-1156
CPU Support:	LGA-1156 i3/i5/i7 Series of Processors
Chipset:	Intel H55 Express Chipset
BCLK Speeds	100-500MHz in 1MHz increments
DDR3 Memory Speed:	1067, 1333 Frequency Ratios
Uncore Frequency	Fixed at 16x or 18x according to CPU model class
Core Voltage:	1V ~ 2V in 0.0125V increments
CPU Vdroop Compensation:	N/A
CPU Clock Multiplier:	Dependent on Processor, all available multipliers supported
DRAM Voltage: DDR3	Auto, 1.20V ~ 2.60V in 0.1V ~ 0.02V increments (1.50V base)
DRAM Timing Control:	tCL, tRCD, tRP, tRAS, + 9 Additional Timings
DRAM Command Rate:	Auto, 1N, 2N & 3N
PCH Voltage:	Auto, 1.05V ~ 1.35V in .15V increments, 1.05V Base
CPU VTT (Uncore) Voltage:	CPU Default ~ +0.697V in 0.05V ~ 0.06V increments
CPU PLL Voltage:	1.8V ~ 2.1V in 0.1V increments, 1.80V Base
Memory Slots:	Two 240-pin DDR3 DIMM Slots
	Dual-Channel Configuration
	Regular Unbuffered DDR3 Memory to 8GB Total
Expansion Slots:	1X PCIe 16X Slot, 1x Mini-PCIe
Onboard SATA/RAID:	6x SATA 3.0Gbps Ports - Intel Chipset
	Hot Plug and NCQ Support
Onboard USB 2.0:	10 USB 2.0 ports on I/O Panel, 4 via header
Onboard LAN:	Intel 82578DC X1 (PCI/e) and AzureWare Wireless-N module
Onboard Audio:	Realtek ALC885 High Definition Audio Codec, 7.1 Channel
Power Connectors:	ATX 24-pin, 4-pin EPS 12V
I/O Panel:	1 x PS/2 Keyboard
	1 x RJ45
	10 x USB 2.0/1.1 (1 X eSATA combo)
	1X Coaxial S/PDIF
	1X HDMI
	1X VGA
	1XDVI
	5 Audio I/O jacks
Fan Headers:	1 CPU + 1 Additional Header
Fan Control:	Full temp/speed fan control for both headers via BIOS or OS software.
Package Contents:	SATA Cable X3, 4-pin ATX extension cable X1, I/O Panel X1, 1X User Manual, Driver DVD X1, WiFi Antennas X2 panel I/O.
BIOS Revisions Used:	P55MIB02
Warranty	Limited lifetime warranty (location dependent)

CPU-Z

| CPU | Caches | Mainboard | Memory | SPD | Graphics | About |

Processor
Name: Intel Core i3 530
Code Name: Clarkdale   Brand ID
Package: Socket 1156 LGA
Technology: 32 nm   Core Voltage: 1.192 V
Specification: Intel(R) Core(TM) i3 CPU   530 @ 2.93GHz (ES)
Family: 6   Model: 5   Stepping: 2
Ext. Family: 6   Ext. Model: 25   Revision:
Instructions: MMX, SSE (1, 2, 3, 3S, 4.1, 4.2), EM64T, VT-x

Clocks (Core #0)
Core Speed: 3305.9 MHz
Multiplier: x 22.0 (9 - 22)
Bus Speed: 150.3 MHz
QPI Link: 3305.9 MHz

Cache
L1 Data: 2 x 32 KBytes   8-way
L1 Inst.: 2 x 32 KBytes   4-way
Level 2: 2 x 256 KBytes   8-way
Level 3: 4 MBytes   16-way

Selection: Processor #1   Cores: 2   Threads: 4

CPU-Z   Version 1.53.1   Validate   OK

CPU-Z

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General
Type: DDR3   Channels #: Dual
Size: 4096 MBytes   DC Mode: Symmetric
NB Frequency:

Timings
DRAM Frequency: 751.3 MHz
FSB:DRAM: 4:20
CAS# Latency (CL): 9.0 clocks
RAS# to CAS# Delay (tRCD): 8 clocks
RAS# Precharge (tRP): 8 clocks
Cycle Time (tRAS): 24 clocks
Row Refresh Cycle Time (tRFC): 74 clocks
Command Rate (CR): 1T
DRAM Idle Timer:
Total CAS# (tRDRAM):
Row To Column (tRCD):

CPU-Z   Version 1.53.1   Validate   OK

Application Performance - Sorenson Squeeze 6
FLV HQ Transcode - Time in Seconds - Lower is Better

Zotac H55- i7 860	132
DFI MI-P55- i3 530	274
Zotac H55- i3 530	274
Zotac 8200- AMD X2 250	416

0   50   100   150   200   250   300   350   400   450

Application Performance - WinRAR 3.90 x64
Compress - 954MB / 28 Files - Time in Seconds - Lower is Better

Zotac H55- i7 860	141
DFI MI-P55- i3 530	273
Zotac H55- i3 530	283
Zotac 8200- AMD X2 250	500

0   100   200   300   400   500   600

Gaming Performance - Batman - Arkham Asylum
1280X800 Bench - Low Detail

Configuration	Score
Zotac H55- i7 860	255
Zotac H55- i3 530	174
DFI MI-P55- i3 530	171
Zotac H55- i3 530 @ 3.3GHz- IGP	26
Zotac H55- i3 530- IGP	24
Zotac 8200- AMD X2 250	19

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Gaming Performance - Crysis
1280X800 Bench - Low Detail

Configuration	Score
Zotac H55- i7 860	142
Zotac H55- i3 530	110
DFI MI-P55- i3 530	107
Zotac H55- i3 530 @ 3.3GHz- IGP	21
Zotac H55- i3 530- IGP	20
Zotac 8200- AMD X2 250	16

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