msi

MSI Nightblade X2B-090EU Intel® Core™ i7 i7-6700 8 GB DDR4-SDRAM 1,13 TB HDD+SSD NVIDIA® GeForce® GTX 980 Windows 10 Home Workstation Black, Red

Brand : MSI   **Product family:** Nightblade   **Article code:** 9S6-B10611-090

Product name : X2B-090EU

MSI Nightblade X2B-090EU. Processor frequency: 3,4 GHz, Processor family: Intel® Core™ i7, Processor model: i7-6700. Internal memory: 8 GB, Internal memory type: DDR4-SDRAM. Total storage capacity: 1,13 TB, Storage media: HDD+SSD, Optical drive type: DVD Super Multi DL. On-board graphics card model: Intel® HD Graphics 530, Discrete graphics card model: NVIDIA® GeForce® GTX 980. Wi-Fi. Operating system installed: Windows 10 Home. Product type: Workstation. Weight: 10 kg. Product color: Black, Red

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i7
Processor generation	6th gen Intel® Core™ i7
Processor model *	i7-6700
Processor cores	4
Processor threads	8
Processor boost frequency	4 GHz
Processor frequency *	3.4 GHz
Processor socket	LGA 1151 (Socket H4)
Processor cache	8 MB
Processor cache type	Smart Cache
System bus rate	8 GT/s
Bus type	DMI3
FSB Parity	✗
Processor lithography	14 nm
Processor operating modes	64-bit
Processor series	Intel Core i7-6700 Desktop series
Processor codename	Skylake
Thermal Design Power (TDP)	65 W
Tcase	71 °C
PCI Express slots version	3.0
Maximum number of PCI Express lanes	16
PCI Express configurations	2x8, 1x8+2x4, 1x16
Number of processors installed	1
Stepping	R0
Maximum internal memory supported by processor	64 GB
Memory types supported by processor	DDR3L-SDRAM, DDR4-SDRAM
Memory clock speeds supported by processor	1333,1600,1866,2133 MHz
Memory bandwidth supported by processor (max)	34.1 GB/s

Design

Product colour *	Black, Red

Performance

Audio system	NAHIMIC HD
Audio output channels	7.1 channels
Product type *	Workstation

Software

Operating system installed *	Windows 10 Home

Processor special features

Intel® Small Business Advantage (Intel® SBA)	✔
Intel® Wireless Display (Intel® WiDi)	✔
Intel 64	✔
Enhanced Intel SpeedStep Technology	✔
Embedded options available	✔
Intel® InTru™ 3D Technology	✔
Intel® Insider™	✔
Intel® Clear Video HD Technology (Intel® CVT HD)	✔
Intel Clear Video Technology	✔
Intel VT-x with Extended Page Tables (EPT)	✔
Intel TSX-NI	✔
Idle States	✔
Thermal Monitoring Technologies	✔
Intel Stable Image Platform Program (SIPP)	✔
Intel® AES New Instructions (Intel® AES-NI)	✔
Intel® Secure Key	✔
Intel® OS Guard	✔

Processor

ECC supported by processor	✗
Memory voltage supported by processor	1.35 V

Memory

Internal memory *	8 GB
Maximum internal memory *	32 GB
Internal memory type	DDR4-SDRAM
Memory channels	Dual-channel

Storage

Total storage capacity *	1.13 TB
Storage media *	HDD+SSD
Optical drive type *	DVD Super Multi DL
HDD capacity	1 TB
SSD capacity	128 GB

Graphics

On-board graphics card *	✔
Discrete graphics card model *	NVIDIA® GeForce® GTX 980
Discrete graphics card memory	4 GB
On-board graphics card family	Intel® HD Graphics
On-board graphics card model *	Intel® HD Graphics 530
On-board graphics card base frequency	350 MHz
On-board graphics card dynamic frequency (max)	1150 MHz
Maximum on-board graphics card memory	1.74 GB
Number of displays supported (on-board graphics)	3
On-board graphics card DirectX version	12.0
On-board graphics card OpenGL version	4.4
On-board graphics card ID	1912
Graphics card Open GL support	✔

Network

Ethernet LAN *	✔
Ethernet LAN data rates	1000 Mbit/s
Wi-Fi *	✔
Top Wi-Fi standard	Wi-Fi 5 (802.11ac)
Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n)
Bluetooth	✔
Bluetooth version	4.1

Ports & interfaces

USB 2.0 ports quantity *	4
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1
DVI port	✔
HDMI ports quantity *	1
HDMI version	1.4a
DisplayPorts quantity	3
Ethernet LAN (RJ-45) ports	1
Microphone in	✗
Headphone outputs	1

Processor special features

Intel Trusted Execution Technology	✔
Execute Disable Bit	✔
Intel FDI Technology	✗
Intel Flex Memory Access	✗
Intel Fast Memory Access	✗
Intel Enhanced Halt State	✔
Intel Demand Based Switching	✗
Intel Software Guard Extensions (Intel SGX)	✔
Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✔
Processor package size	37.5 x 37.5 mm
Supported instruction sets	SSE4.1, AVX 2.0, SSE4.2
Processor code	SR2BT
Scalability	1S
CPU configuration (max)	1
Graphics & IMC lithography	14 nm
Thermal solution specification	PCG 2015C
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel Identity Protection Technology version	1.00
Intel Stable Image Platform Program (SIPP) version	1.00
Intel Secure Key Technology version	1.00
Intel Virtualization Technology (VT-x)	✔
Intel Small Business Advantage (SBA) version	1.00
Intel TSX-NI version	1.00
Intel Dual Display Capable Technology	✗
Intel Rapid Storage Technology	✗
Processor ARK ID	88196
Intel® Turbo Boost Technology	2.0
Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel® Quick Sync Video Technology	✔
Intel® My WiFi Technology (Intel® MWT)	✗
Intel® Identity Protection Technology (Intel® IPT)	✔
Intel® Anti-Theft Technology (Intel® AT)	✗
Conflict-Free processor	✔

Weight & dimensions

Width *	175 mm
Depth *	440 mm
Height *	280 mm
Weight *	10 kg

Packaging content

Display included *	✗

Other features

Optical drives quantity	1

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