



**MSI Pro 20ET 4BW-056DE Intel® Celeron® N3160 49,5 cm (19.5")
1600 x 900 pixels Touchscreen All-in-One PC 4 GB DDR3L-SDRAM
128 GB SSD Windows 10 Home Wi-Fi 4 (802.11n) Black**

Brand : MSI

Product family: Pro

Article code: 956-AA8B11-056

Product name : 20ET
4BW-056DE



MSI Pro 20ET 4BW-056DE. Product type: All-in-One PC. Display diagonal: 49,5 cm (19.5"), HD type: HD+, Display resolution: 1600 x 900 pixels, Touchscreen. Processor family: Intel® Celeron®, Processor frequency: 1,6 GHz. Internal memory: 4 GB, Internal memory type: DDR3L-SDRAM. Total storage capacity: 128 GB, Storage media: SSD. Built-in camera. Optical drive type: DVD Super Multi. Operating system installed: Windows 10 Home. Product color: Black



Display		Ports & interfaces	
Display diagonal *	49.5 cm (19.5")	Mini PCI Express slots	1
Display resolution *	1600 x 900 pixels	Serial ports quantity	1
Touchscreen *	✓	Design	
HD type *	HD+	Product colour *	Black
LED backlight	✓	Performance	
Touch technology	Multi-touch	Product type *	All-in-One PC
Native aspect ratio	16:9	Software	
Screen shape	Flat	Operating system architecture	64-bit
Processor		Operating system installed *	Windows 10 Home
Processor manufacturer *	Intel	Processor special features	
Processor family *	Intel® Celeron®	Intel® Smart Response Technology	✗
Processor model *	N3160	Intel® Turbo Boost Technology	✗
Processor cores	4	Intel® Hyper Threading Technology (Intel® HT Technology)	✗
Processor threads	4	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor boost frequency	2.24 GHz	Intel® Anti-Theft Technology (Intel® AT)	✗
Processor frequency *	1.6 GHz	Intel Smart Connect Technology	✗
Processor cache	2 MB	Intel® Small Business Advantage (Intel® SBA)	✗
Processor cache type	L2	Intel® Wireless Display (Intel® WiDi)	✓
Thermal Design Power (TDP)	6 W	Intel® High Definition Audio (Intel® HD Audio)	✓
PCI Express slots version	2.0	Enhanced Intel SpeedStep Technology	✓
Processor socket	BGA 1170	Intel® Quick Sync Video Technology	✓
Processor lithography	14 nm	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor operating modes	64-bit	Intel Clear Video Technology	✓
Stepping	D1	Intel® Insider™	✗
Processor codename	Braswell		
Processor series	Intel Celeron N3000 series		
Maximum number of PCI Express lanes	4		
PCI Express configurations	1x2+2x1, 1x4, 2x2, 4x1		
Processor code	SR2KP		
Tjunction	90 °C		
Scenario Design Power (SDP)	4 W		

Processor		Processor special features	
Integrated 4G WiMAX	✗	Intel® InTru™ 3D Technology	✗
Maximum internal memory supported by processor	8 GB	Intel® AES New Instructions (Intel® AES-NI)	✓
Conflict-Free processor	✓	Intel Trusted Execution Technology	✗
Memory types supported by processor	DDR3L-SDRAM	Intel Enhanced Halt State	✓
Memory clock speeds supported by processor	1600 MHz	Intel VT-x with Extended Page Tables (EPT)	✓
Memory channels supported by processor	Dual	Intel® Secure Key	✓
ECC supported by processor	✗	Intel Stable Image Platform Program (SIPP)	✗
Memory		Intel® OS Guard	✗
Internal memory *	4 GB	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Internal memory type	DDR3L-SDRAM	Intel 64	✓
Maximum internal memory *	8 GB	Execute Disable Bit	✓
Memory slots	1	Idle States	✓
Memory slots type	SO-DIMM	Thermal Monitoring Technologies	✓
Memory clock speed	1600 MHz	Processor package size	25 x 27 mm
Memory form factor	DIMM/SO-DIMM	CPU configuration (max)	1
Storage		Embedded options available	✓
Total storage capacity *	128 GB	UART	✓
Storage media *	SSD	Intel Virtualization Technology for Directed I/O (VT-d)	✗
Number of SSDs installed	1	Intel Secure Boot	✓
SSD capacity	128 GB	Intel Smart Connect Technology version	0.00
Optical drive type *	DVD Super Multi	Intel Identity Protection Technology version	1.00
Card reader integrated	✓	Intel Smart Response Technology version	0.00
Compatible memory cards	MMC, Memory Stick (MS), SD	Intel Secure Boot Technology version	1.00
Graphics		Intel Stable Image Platform Program (SIPP) version	0.00
Discrete graphics card *	✗	Intel Secure Key Technology version	1.00
Discrete graphics card model *	Not available	Intel Virtualization Technology (VT-x)	✓
On-board graphics card *	✓	Intel Small Business Advantage (SBA) version	0.00
On-board graphics card model *	Intel® HD Graphics 400	Intel Rapid Storage Technology	✗
On-board graphics card base frequency	320 MHz	Processor ARK ID	91831
On-board graphics card burst frequency	640 MHz	Power	
Maximum on-board graphics card memory	8 GB	AC adapter power	65 W
Number of displays supported (on-board graphics)	3	Weight & dimensions	
On-board graphics card DirectX version	12.0	Width (with stand)	513.2 mm
Number of execution units	12	Depth (with stand)	87 mm
Audio		Height (with stand)	392.1 mm
Built-in speaker(s) *	✓	Weight (with stand)	6.2 kg
RMS rated power	6 W	Package weight	8.3 kg
Built-in microphone	✓	Packaging content	
Camera		Mouse included	✓
Built-in camera *	✓	Keyboard included	✓
Total megapixels	1 MP	Other features	
Network		3D	✗
Wi-Fi *	✓	Autonomy mode	✗
Top Wi-Fi standard *	Wi-Fi 4 (802.11n)	Detachable display	✗
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)		
Ethernet LAN *	✓		
Ethernet LAN data rates	10,100,1000 Mbit/s		
Bluetooth *	✗		

Ports & interfaces	
Ethernet LAN (RJ-45) ports	1
USB 2.0 ports quantity *	4
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
HDMI ports quantity *	1
Headphone outputs	1
Microphone in	✓

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