

# Intel BKCM8I7CB8N embedded computer 1.8 GHz Intel® Core™ i7 8 GB

**Brand :** Intel

**Product code:** BKCM8I7CB8N

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NUC 8 Pro Compute Element

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## Intel® Virtualization Technology for Directed I/O (VT-d)

Intel® Virtualization Technology for Directed I/O (VT-d) continues from the existing support for IA-32 (VT-x) and Itanium® processor (VT-i) virtualization adding new support for I/O-device virtualization. Intel VT-d can help end users improve security and reliability of the systems and also improve performance of I/O devices in virtualized environments.

## Intel® Virtualization Technology (VT-x)

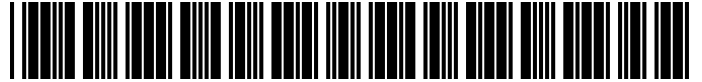
Intel® Virtualization Technology (VT-x) allows one hardware platform to function as multiple “virtual” platforms. It offers improved manageability by limiting downtime and maintaining productivity by isolating computing activities into separate partitions.

Processor		Performance	
Processor generation	8th gen Intel® Core™ i7	Commodity Classification	
Processor frequency *	1.8 GHz	Automated Tracking System (CCATS)	G157815L2
Processor family *	Intel® Core™ i7	ARK ID	205881
Processor model *	i7-8565U		
Processor cores	4	Software	
Processor boost frequency	4.6 GHz	Compatible operating systems	Windows 10, 64-bit* Windows 10 IoT Enterprise*
Processor cache	8 MB		
Processor threads	8	Processor special features	
Processor lithography	14 nm	Intel Flex Memory Access	✓
Bus type	OPI	Intel® AES New Instructions (Intel® AES-NI)	✓
Configurable TDP-up frequency	2 GHz	Enhanced Intel SpeedStep Technology	✓
Configurable TDP-up	25 W	Execute Disable Bit	✓
Configurable TDP-down frequency	0.8 GHz	Idle States	✓
Configurable TDP-down	10 W	Intel Trusted Execution Technology	✗
Memory types supported by processor	LPDDR3-SDRAM	Intel Enhanced Halt State	✓
Memory		Intel VT-x with Extended Page Tables (EPT)	✓
Internal memory *	8 GB	Embedded options available	✗
Internal memory type	LPDDR3	Intel TSX-NI	✗
Memory clock speed	2133 MHz	Intel 64	✓
ECC	✗	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Memory channels	Dual-channel	Intel Clear Video Technology	✓
Supported memory types	LPDDR3-SDRAM	Intel Software Guard Extensions (Intel SGX)	✓
Storage		Intel Identity Protection Technology version	1.00
Card reader integrated	✗	Intel Secure Key Technology version	1.00
Graphics		Intel Smart Response Technology version	1.00
On-board graphics card *	✗	Intel Virtualization Technology (VT-x)	✓
On-board graphics card model *	Intel® UHD Graphics	Intel TSX-NI version	0.00
Discrete graphics card *	✗	Intel® Platform Trust Technology (Intel® PTT)	✓
Number of displays supported	3	Intel® vPro™ Platform Eligibility	✗
Number of displays supported (on-board graphics)	3		
Graphics output	2x DDI (configurable as DP/HDMI), 1x eDP		
Network			
Wi-Fi *	✓		

<b>Network</b>		<b>Weight &amp; dimensions</b>	
Wi-Fi standards	Wi-Fi 5 (802.11ac)	Width	95 mm
Bluetooth	✓	Depth	6 mm
Bluetooth version	5.0	Height	65 mm
<b>Ports &amp; interfaces</b>		<b>Packaging content</b>	
HDMI ports quantity *	1	Processor included	Intel® Core™ i7-8565U Processor (8M Cache, up to 4.60 GHz)
DisplayPorts quantity	1		
<b>Performance</b>		<b>Logistics data</b>	
Status	Launched	Harmonized System (HS) code	84713000
Export Control Classification Number (ECCN)	5A992C		



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