

# BM3300 / BM3500 [new]

## Intel® Skylake™ U and Kaby Lake™ U based fanless book mounting IPCs



The fanless Book Mounting IPC family BM3300 is based on the 6th generation Core i3, i5, i7 and Celeron dual core 15W processors of the Intel® Skylake™ U and the BM3500 family is based on the 7th generation Core i3, i5, i7 and Celeron dual core 15W processors of the Intel® Kaby Lake™ U platform. The systems are supplied with a sturdy aluminium chassis, highly refined in every aesthetic and ergonomic

detail. The "all in one" motherboard provides, on top, three Ethernet 10/100/1000Mbps ports that support "Jumbo Frame" and "Wake on Lan" functionalities, two USB 3.0 ports and one DVI-D video output or, as an alternative, a Remote Video Link connector (RJ45) for the remotation of the video and USB signals up to 100 m; on front, a USB 3.0 port, a SATA III CFast slot, a slot for the extractable system

battery and the signalling LEDs. The motherboard has also an mSATA connector for a SATA III SSD, one SATA III connector for a 2.5" SSD/HDD, up to 16 GB RAM with one DDR4 SODIMM module and an internal connector for additional interfaces. The systems have an isolated 24 VDC power supply input and optionally an integrated UPS with external battery pack.



### + Highlights

- UBIQUITY remote assistance software providing remote access to the system
- Highly refined aluminium chassis
- "All in one" motherboard
- Low consumption Intel® Skylake™ U (BM3300) and Kaby Lake™ U (BM3500) platforms
- Fanless book mounting IPC with 0°C÷50°C operating temperature
- Isolated 24 VDC power supply input
- Onboard connector for NETcore X fieldbus boards
- Integrated UPS with external battery pack (optional)
- RVL version (Remote Video Link) with remotation of DVI and USB 2.0 signals up to 100 m
- CE, cULus LISTED (61010) certifications

## Gallery



## Add-On boards

### Position A

- 1 x RS232/422/485 + 1 x USB 2.0
- 1 x RS232/422/485 isol. + 1 x USB 2.0
- 2 x RS232
- 2 x USB 2.0
- 1 x NETcore X fieldbus board



## Technical data

	BM3300/BM3500	BM3300 RVL/BM3500 RVL
<b>PROCESSORS (soldered)</b>	BM3300 Intel® Celeron 3955U 2.00GHz 64bit, 2 cores / 2 threads, 2MB Smart cache Intel® Core i3-6100U 2.30GHz 64bit, 2 cores / 4 threads, 3MB Smart cache Intel® Core i5-6300U 2.40GHz (3.00GHz Turbo) 64bit, 2 cores / 4 threads, 3MB Smart cache Intel® Core i7-6600U 2.60GHz (3.40GHz Turbo) 64bit, 2 cores / 4 threads, 4MB Smart cache	BM3500 Intel® Celeron 3965U 2.20GHz 64bit, 2 cores / 2 threads, 2MB Smart cache Intel® Core i3-7100U 2.40GHz 64bit, 2 cores / 4 threads, 3MB Smart cache Intel® Core i5-7300U 2.60GHz (3.50GHz Turbo) 64bit, 2 cores / 4 threads, 3MB Smart cache Intel® Core i7-7600U 2.80GHz (3.90GHz Turbo) 64bit, 2 cores / 4 threads, 4MB Smart cache
<b>CHIPSET</b>	BM3300 Intel® Skylake U PCH (Platform Controller Hub) for BM3300 • Included into processor chip	BM3500 Intel® Kaby Lake U PCH (Platform Controller Hub) for BM3500 • Included into processor chip
<b>VIDEO CONTROLLER</b>	BM3300 Intel® HD Graphics 510 integrated in Celeron processor • 300MHz/900MHz • DirectX 12 and OpenGL 4.4 support Intel® HD Graphics 520 integrated in Core i3, Core i5 processors • 300MHz/1GHz • DirectX 12 and OpenGL 4.4 support Intel® HD Graphics 520 integrated in Core i7 processor • 300MHz/1,05GHz • DirectX 12 and OpenGL 4.4 support	BM3500 Intel® HD Graphics 620 integrated in Core i3 processors • 300MHz/1GHz • DirectX 12 and OpenGL 4.5 support Intel® HD Graphics 620 integrated in Core i5 processors • 300MHz/1.1GHz • DirectX 12 and OpenGL 4.5 support Intel® HD Graphics 620 integrated in Core i7 processor • 300MHz/1.15GHz • DirectX 12 and OpenGL 4.5 support
<b>SYSTEM MEMORY - RAM</b>	4GB or 8GB or 16GB (1 x SODIMM DDR4 module)	
<b>TPM</b>	TPM module (optional)	
<b>MASS STORAGE</b>	1 bootable CFast SATA III slot onboard with external access (front) 1 x onboard connector for direct insertion of mSATA SSD SATA III 1 x onboard connector for 2,5" SSD/HDD SATA III with internal installation kit	
<b>LAN</b>	3 x LAN 10/100/1000Mbps (RJ45 - 2 x Intel® I210, 1 x Intel® I219LM)	
<b>USB</b>	1 x USB 3.0, front (Type-A) 2 x USB 3.0, top (Type-A)	
<b>BATTERY</b>	1 x CR2032 Removable front access	
<b>VIDEO OUTPUT</b>	1 x DVI-D	1 x RJ45 connector for the DVI-D and USB 2.0 signals emotation up to 100 m
<b>ADD-ON INTERFACES</b>	1 x RS232/422/485 (DB15M) + 1 x USB 2.0 (Type-A) 1 x RS232/422/485 (DB15M) isolated + 1 x USB 2.0 (Type-A) Position A (max 1) 2 x RS232 (DB9M) 2 x USB 2.0 (Type-A) 1 x LAN 10/100/1000Mbps (RJ45 - Intel® I210) + 1 x USB 2.0 (Type-A) 1 x NETcore X fieldbus boards for EtherCAT, EtherNet IP, PROFINET, PROFIBUS, CANopen protocols	
<b>POWER SUPPLY INPUT</b>	24VDC (18÷32VDC) isolated	
<b>POWER SUPPLY OPTIONS</b>	UPS with external battery pack	
<b>CASE</b>	Installation	Wall book mounting
	Material	Aluminium alloy 6082/5754/5056
<b>O.S. CERTIFIED</b>	BM3300	Microsoft Windows 7 Pro/Ultimate 32/64bit Microsoft Windows Embedded Standard 7E/7P 32/64 bit Microsoft Windows 8.1 Industry Pro 32/64bit Microsoft Windows 10 IoT Enterprise 2016/2019 64bit
	BM3500	Microsoft Windows 10 IoT Enterprise 2016/2019 64bit
<b>OPERATING TEMPERATURE</b>	0°C÷50°C 0°C÷45°C with HDD 24x7	
<b>APPROVALS</b>	CE, cULus LISTED (61010)	