

BM1xx



Ultra compact IPC. Suitable for Edge Computing & IIoT applications

- Fanless Book Mounting IPC
- 0° ÷ 50° C operating temperature
- Intel Apollo Lake platform
 - Intel® Atom x7-E3950 1,6GHz (Burst 2,0GHz)
4 cores - 4 threads
 - Intel® Atom x5-E3930 1,3GHz (Burst 1,8 GHz)
2 cores - 2 threads
- LPDDR4 RAM up to 8 GB
- SSD SATA III M.2
- DisplayPort Dual-Mode Video output
- Up to 4 USB 3.0 interfaces Multistandard serial port
- 2.4 and 5 GHz Wi-Fi module
- 4G Global integrated modem
- Integrated UPS with external battery pack
- Windows 10 IoT Enterprise or Linux O.S.



BOOK MOUNTING IPC

BM1xx family



BM100

- 100x100x39 mm
- 2 Gigabit Ethernet and 2 USB 3.0

BM12x

- 100x100x78 mm
- 2 Digital Input + 2 Digital Output
- New integrated UPS with external battery pack (optional)*
- **BM120:** 4 Gigabit Ethernet, 4 USB 3.0 and 1 multistandard serial port (DB9M)
- **BM121:** 2 Gigabit Ethernet, 1 x 4 ports Gigabit Ethernet switch and 4 USB 3.0
- **BM122:** 2 Gigabit Ethernet, 2 USB 3.0, 2.4 and 5 GHz Wi-Fi module and 4G Global modem

BM110

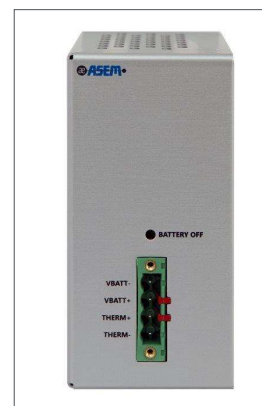
- 100x100x58 mm
- 2 Gigabit Ethernet and 2 USB 3.0
- 2 Digital Input + 2 Digital Output
- New integrated UPS with external battery pack (optional)*

BM13x

- 100x100x100 mm
- 2 USB 3.0, 2.4 and 5 GHz Wi-Fi module and 4G Global modem
- 2 Digital Input + 2 Digital Output
- New integrated UPS with external battery pack (optional)*
- **BM130:** 4 Gigabit Ethernet, 4 USB 3.0 and 1 multistandard serial port (DB9M)
- **BM131:** 2 Gigabit Ethernet, 1 x 4 ports Gigabit Ethernet switch and 4 USB 3.0

* New UPS (optional)

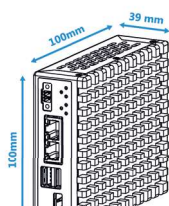
- New NiMH (nickel-metal hydride) battery pack
- Automatic calibration during runtime
- Improved logging functionalities for a precise diagnostic



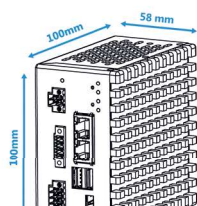
Technical Data

		BM100	BM110	BM120	BM121	BM122	BM130	BM131	
PROCESSOR (soldered)		Intel® Atom™ x5-E3930 1.3GHz (1.8GHz Burst), 2 cores / 2 threads, 2MB L2 cache, 14nm							
		Intel® Atom™ x7-E3950 1.6GHz (2.0GHz Burst), 4 cores / 4 threads, 2MB L2 cache, 14nm							
VIDEO CONTROLLER		Intel® HD Graphics 500 integrated in x5-E3930, 400/550MHz							
		Intel® HD Graphics 505 integrated in x7-E3950, 500/650MHz							
SYSTEM MEMORY - RAM (soldered)		2GB or 4GB with x5-E3930 (LPDDR4)							
		4GB or 8GB with x7-E3950 (LPDDR4)							
MASS STORAGE		1 x onboard connector of M.2 size 2242 key B SSD SATA III							
LAN	10/100/1000 Mbps LAN port	2 x RJ45 ports (2 x Intel® I210)	4 x RJ45 ports (4 x Intel® I210)	2 x RJ45 ports (2 x Intel® I210)	4 x RJ45 ports (4 x Intel® I210)	2 x RJ45 ports (2 x Intel® I210)	2 x RJ45 ports (2 x Intel® I210)		
	10/100/1000 Mbps Ethernet switch	-		1 x unmanaged (Intel® I210) 4 x RJ45 ports	-		1 x unmanaged (Intel® I210) 4 x RJ45 ports		
USB		2 x USB 3.0 (Type-A)		4 x USB 3.0 (Type-A)		2 x USB 3.0 (Type-A)		4 x USB 3.0 (Type-A)	
SERIAL		-		1 x RS232/422/485 (DB9M)		-		1 x RS232/422/485 (DB9M)	
WI-FI	Standard	-		IEEE 802.11 a/b/g/n + Bluetooth V4.0 LE/ V3.0+HS/ V2.1+EDR					
	Features	-		Client / Access Point mode (Wi-Fi)					
	Security	-		64/128-Abits WEP, WPA, WPA2					
	Rx Sensitivity	-		802.11a: -73dBm / 802.11g: -74dBm / 802.11n(2,4GHz): -72dBm@HT20, -69dBm@HT40 / 802.11n(5GHz): -69dBm@HT20 -68dBm@HT40 (Wi-Fi) <0.1% BER at -70dBm (Bluetooth)					
	Antenna	-		2 x RP-SMA-F					
CELLULAR NETWORK	Standard	-		2G/3G/4G LTE Cat4 Multiband (All continents) up to 50Mbps upload / 150Mbps download					
	Antenna	-		1 x SMA-F connector					
	SIM	-		1x SIM card socket push-push type					
DIGITAL INPUT		-		2 x Digital input					
DIGITAL OUTPUT		-		2 x Digital output					
VIDEO OUTPUT		1 x Display Port V1.2 (no audio)							
POWER SUPPLY INPUT		24VDC (18÷32VDC) isolated							
		-		Remote power on input Power status output					
POWER SUPPLY OPTIONS		-		Integrated UPS with external battery pack					
CASE	Installation	Book, wall or DIN rail mounting		Book or DIN rail mounting					
	Material	Aluminium Alloy							
	Dimensions	100x100x39mm	100x100x58mm	100x100x78mm		100x100x100mm			
O.S. CERTIFIED		Microsoft Windows 10 IoT Enterprise 2019 64 bit Linux							
OPERATING TEMPERATURE		0° ÷ 50°C							
APPROVALS		CE, cULus LISTED (61010) pending							

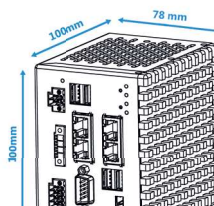
BM100



BM110



BM12x



BM13x

