

# BM100

Compact fanless IPC based on Intel® Apollo Lake™ platform



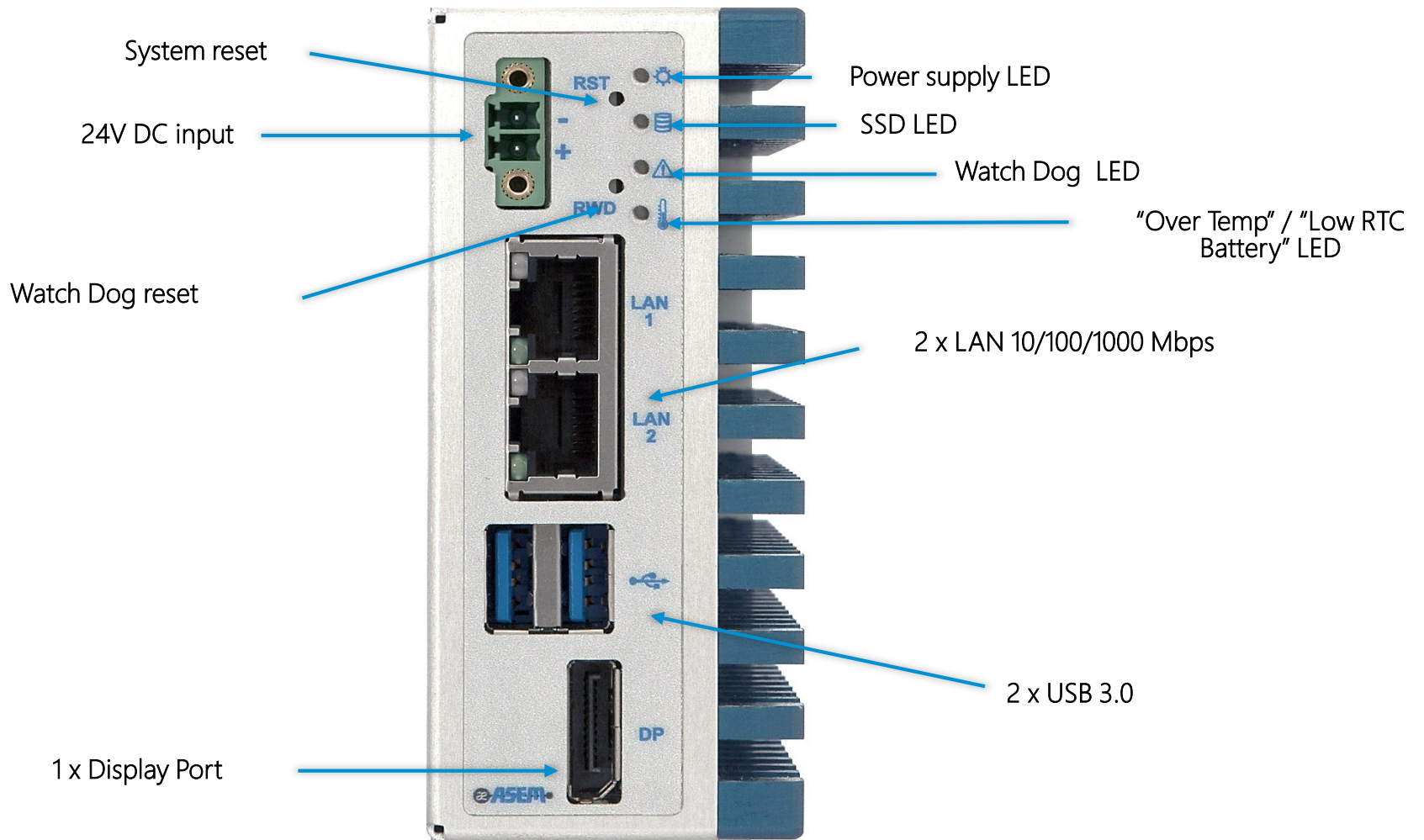
DIGITAL AUTOMATION TECHNOLOGIES

# BM100 - Highlights

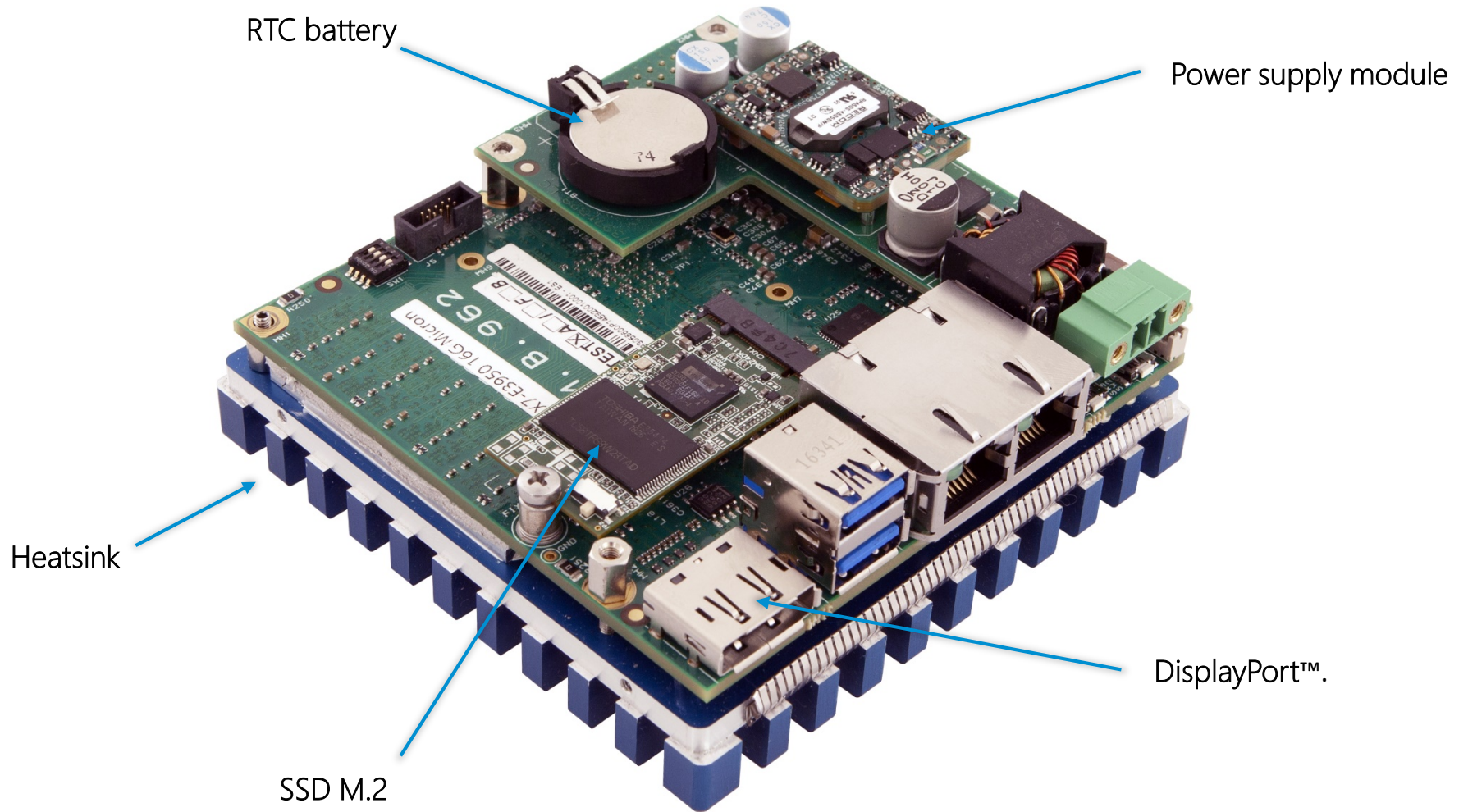


- **Compact Fanless IPC** with **anodized aluminium** chassis and **Book, Wall and DIN rail mounting**
- **Compact size** 10x10x4.1cm
- Ideal for **PC Based Automation, IIoT gateway, data logging** applications
- Operating temperature up to **0°÷55°C**
- Intel® **Apollo Lake platform with**
  - **Atom® x7-E3950 1,6GHz** (Burst 2,0GHz) 4 core/4 thread – 2MB cache processor
  - **Atom® x5-E3930 1,3GHz** (Burst 1,8GHz) 2 core/2 thread – 2MB cache processor
- **System memory**
  - LP-DDR4 RAM (2/4/8 GB) soldered
- **Mass storage**
  - M.2 key B connector with SATA III interface for SSD M.2 size 2242
  - From 32 GB to 256 GB 3D TLC
- **Interfaces**
  - 2 x Ethernet 10/100/1000 Mbps (Intel® I210)
  - 2 x USB 3.0 (max 0,9A on each port)
  - 1 x video Display Port V1.2 (max resolution 4096x2160 – 60Hz)
- **Watch Dog**
- **LEDs:** Power ON, SSD activity, Temp./Battery alarm, W.Dog
- **Buttons:** 1 x System reset, 1 x Watch Dog reset
- **24V DC isolated power supply and RTC battery**
- **Microsoft Windows 10 IoT Enterprise 2016 LTSC Entry 64bit** or **Linux**

# BM100 – Connectors & Interfaces



# BM100 – Overview

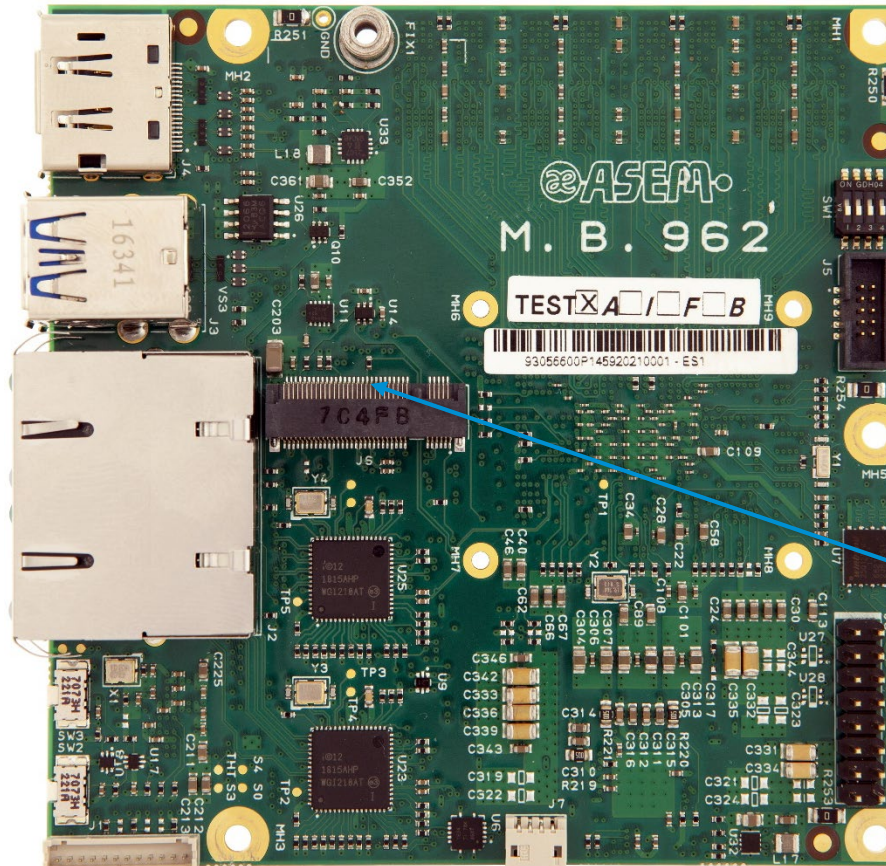


# BM100 – Motherboard MB962 - top

1x DisplayPort™

2 x USB 3.0

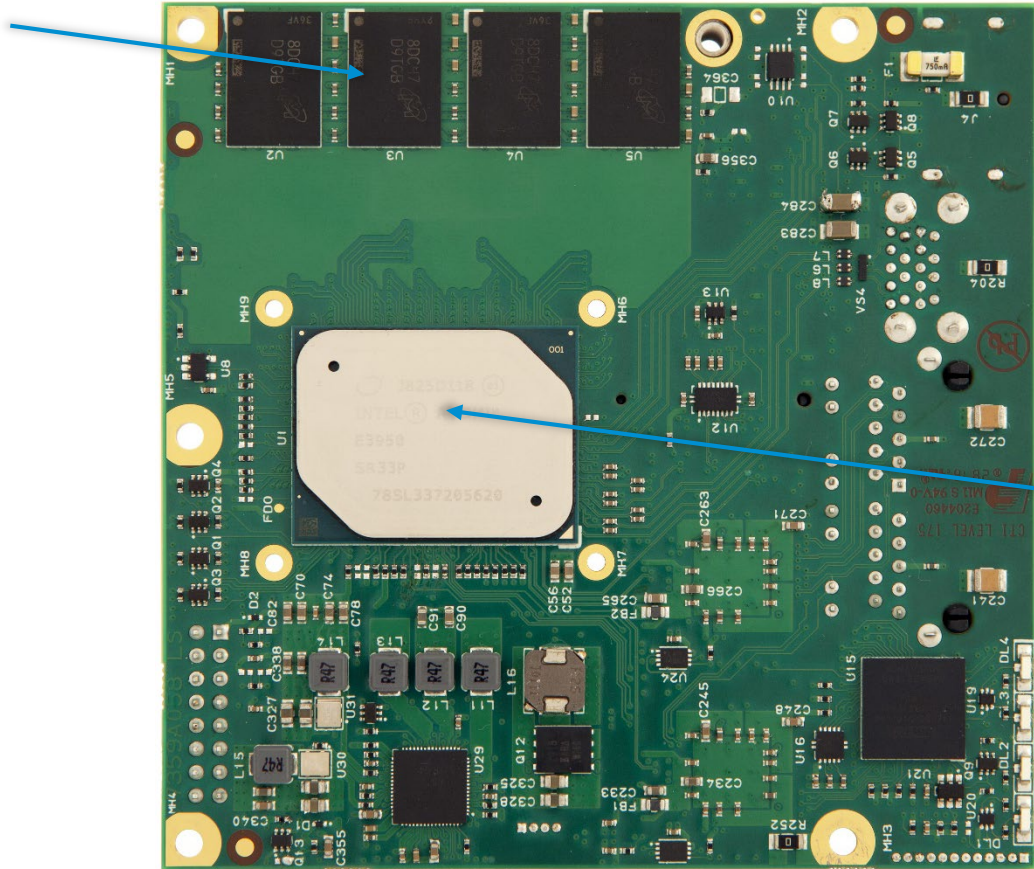
2 x LAN  
10/100/1000



M.2 SATA  
Connector

# BM100 – Motherboard MB962 - bottom

RAM soldered



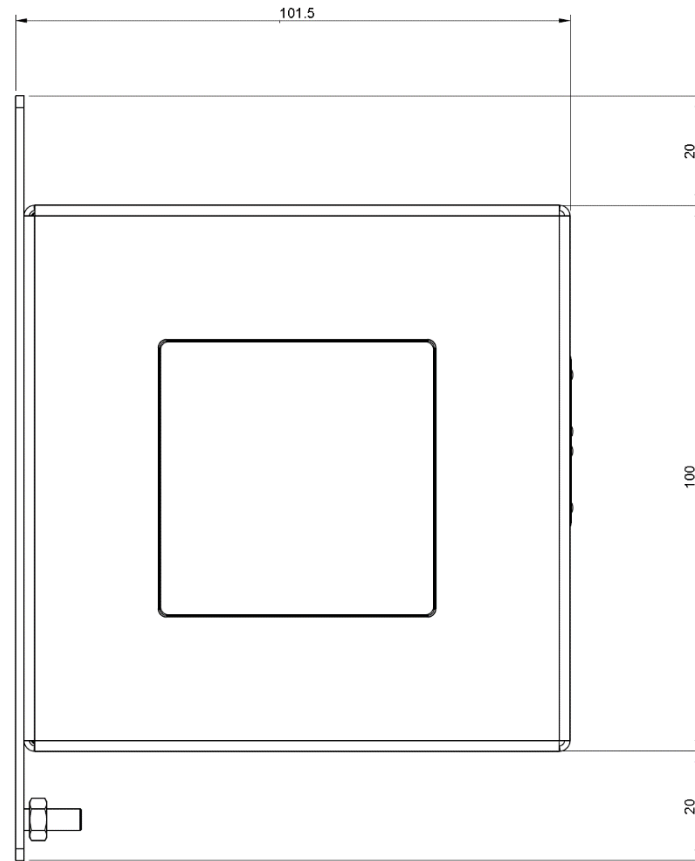
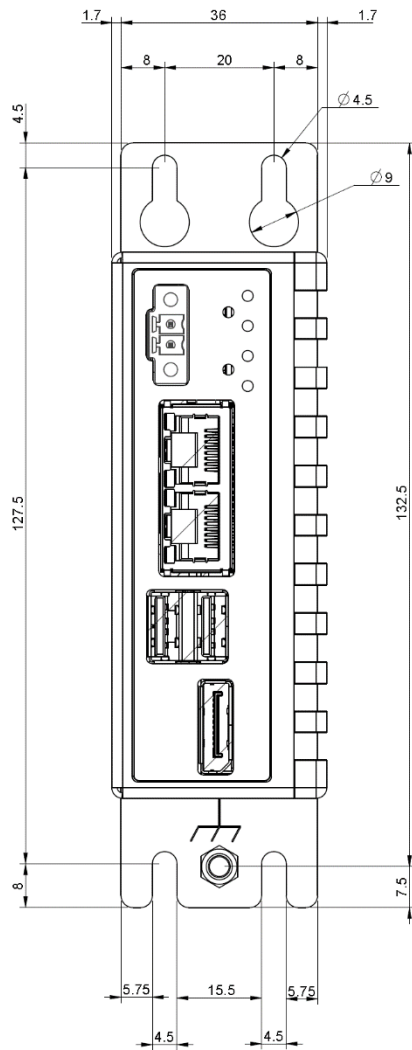
Processor

# BM100 – Technical Specifications



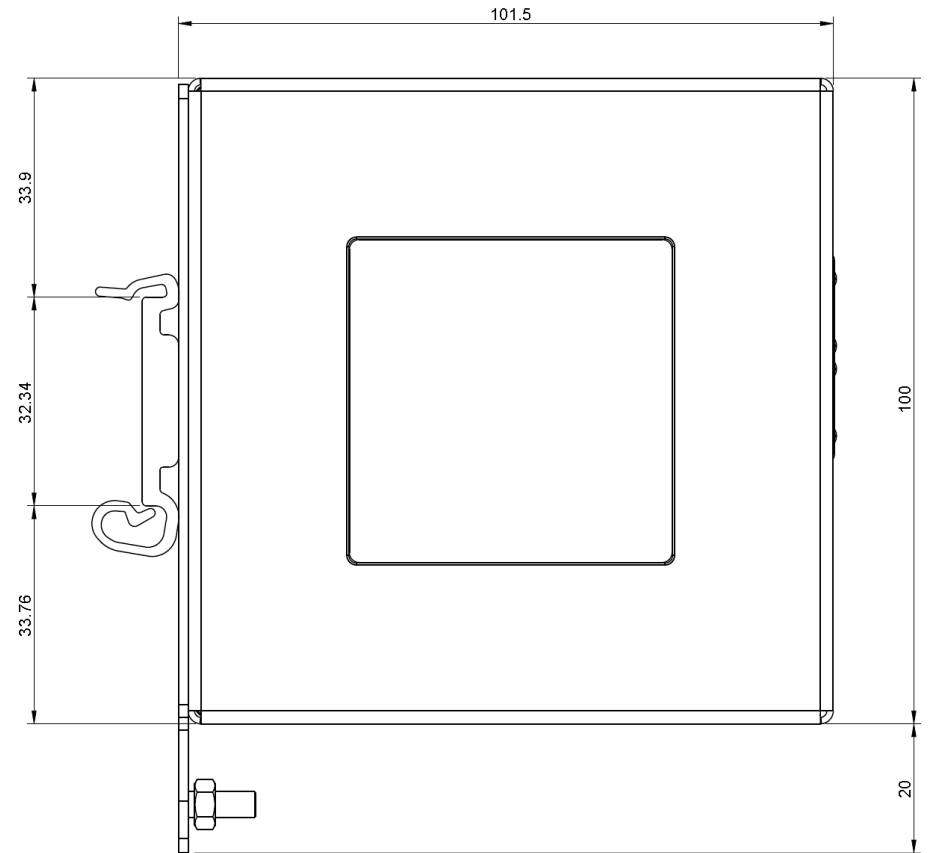
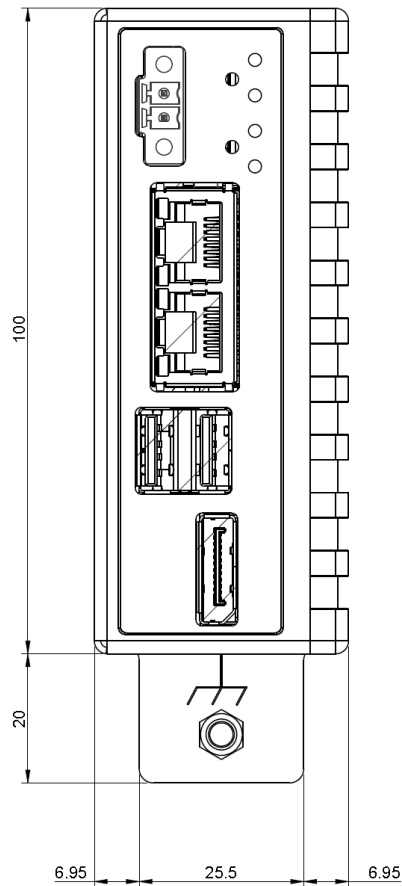
		BM100
<b>PROCESSOR</b> (soldered)	Intel® Atom™ x7-E3950 1.6GHz (2.0GHz Burst), 4 cores / 4 threads, 2MB L2 cache, 12W, 14nm Intel® Atom™ x5-E3930 1.3GHz (1.8GHz Burst), 2 cores / 2 threads, 2MB L2 cache, 6,5W, 14nm	
<b>VIDEO CONTROLLER</b>	Intel® HD Graphics 505 integrated in Intel® Atom™ x7-E3950, 500/650MHz Intel® HD Graphics 500 integrated in Intel® Atom™ x5-E3930, 400/550MHz	
<b>SYSTEM MEMORY - RAM</b>	2/4/8GB (LP-DDR4 soldered)	
<b>MASS STORAGE</b>	1 x onboard connector for direct insertion of M.2 size 2242 key B SSD SATA III	
<b>LAN</b>	2 x LAN 10/100/1000Mbps ( 2 x RJ45, Intel® I210)	
<b>USB</b>	2 x USB 3.0 (Type-A)	
<b>VIDEO OUTPUT</b>	1 x DisplayPort™.V1.2	
<b>POWER SUPPLY UNIT</b>	24VDC (18÷32VDC) isolated	
<b>CASE</b>	<b>Installation</b>	For book, wall or DIN rail mounting
	<b>Material</b>	Aluminum alloy
<b>O.S. CERTIFIED</b>	Microsoft Windows 10 IoT Enterprise 2016 LTSB Entry 64bit	
<b>OPERATING TEMPERATURE</b>	0° - 55°C with E3930 0° - 50°C with E3950	
<b>APPROVALS</b>	CE, cULus LISTED (61010) pending	

# BM100 – Dimensions, book mounting

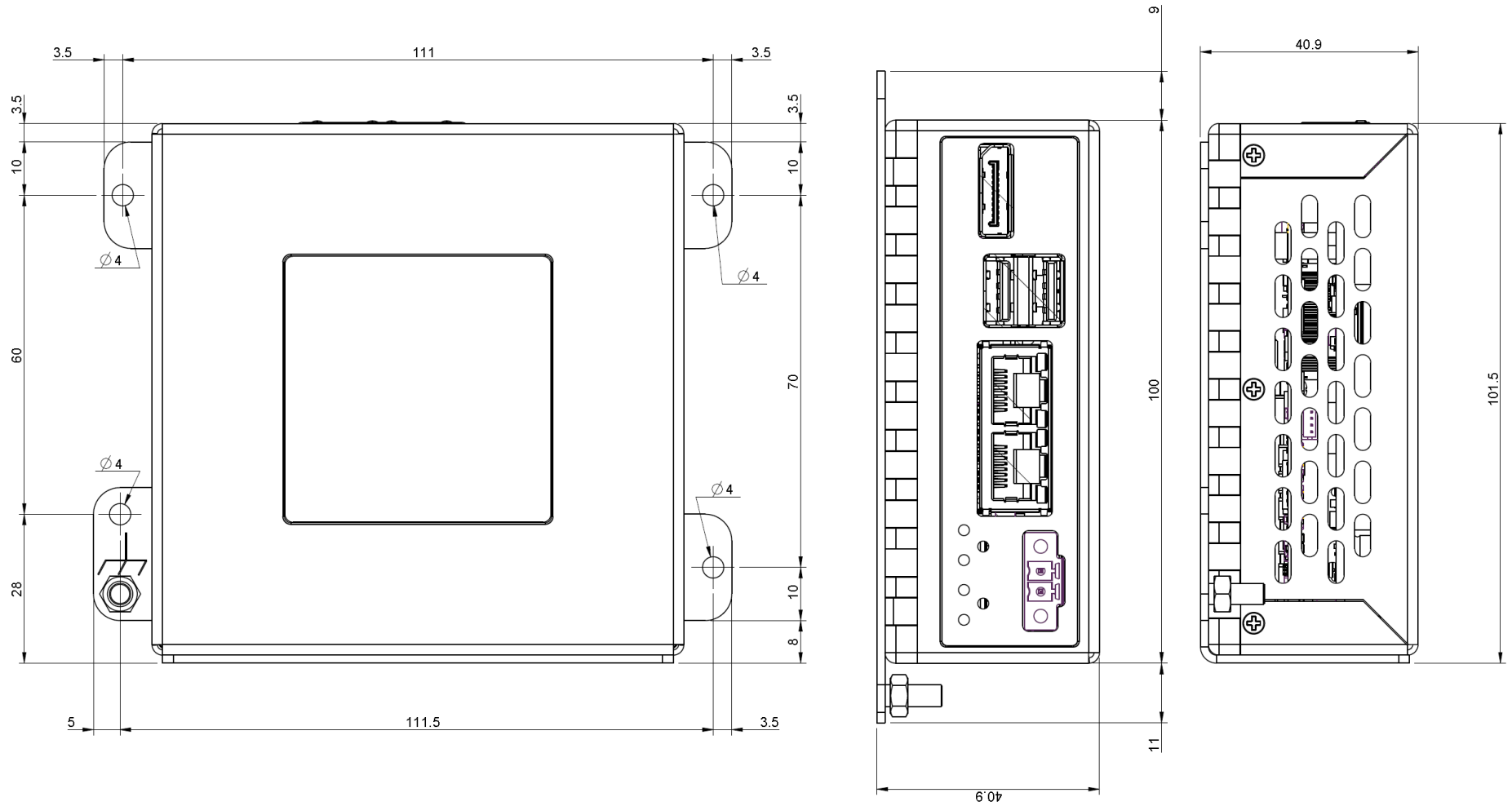




# BM100 – Dimensions, Din rail mounting



# BM100 – Dimensions, wall mounting

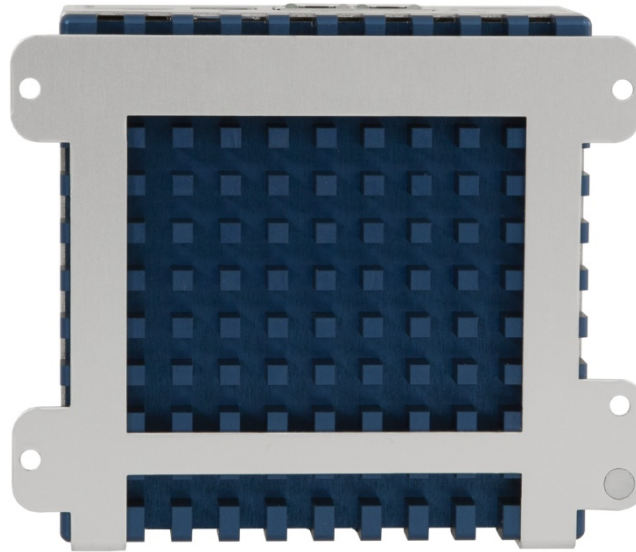


# BM100 – Mounting

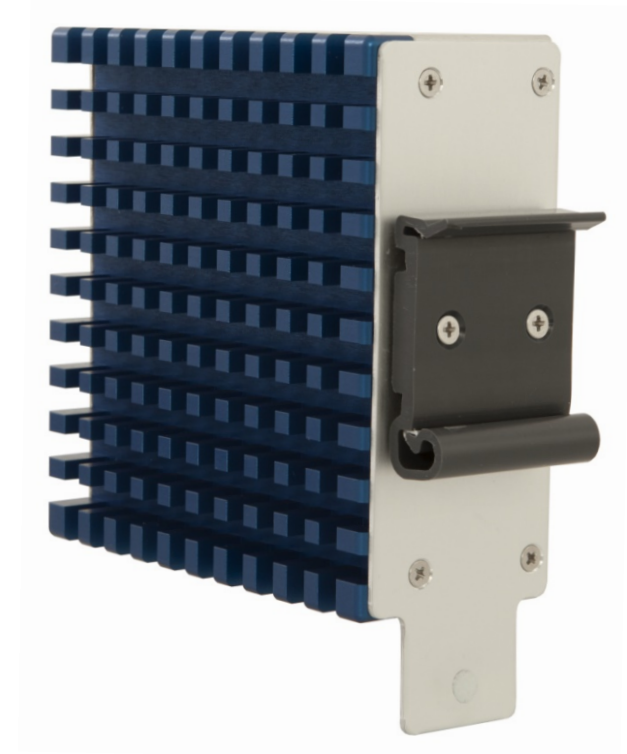
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Book



Wall



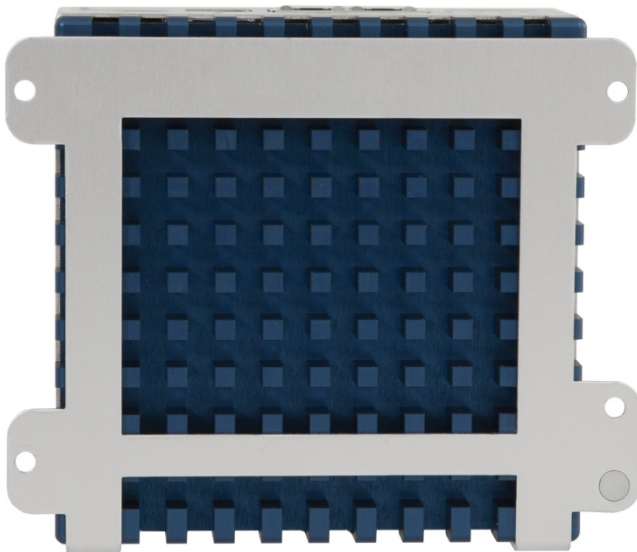
DIN rail

# BM100 – Wall mounting bracket

Front view



Rear view



Side view



# BM100 - Long term availability



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