



Data Sheet

## BRICK BMC ETH6000

### BRICK Measurement Card BMC

Time-synchronized measurement card with 6x 1000Base-T (g)PTB IEEE 802.1AS ports and power over Ethernet IEEE 802.3af support for direct capturing of Ethernet data.

The BRICK BMC ETH 6000 can be used on BRICKplus and BRICK2 Data recording systems.

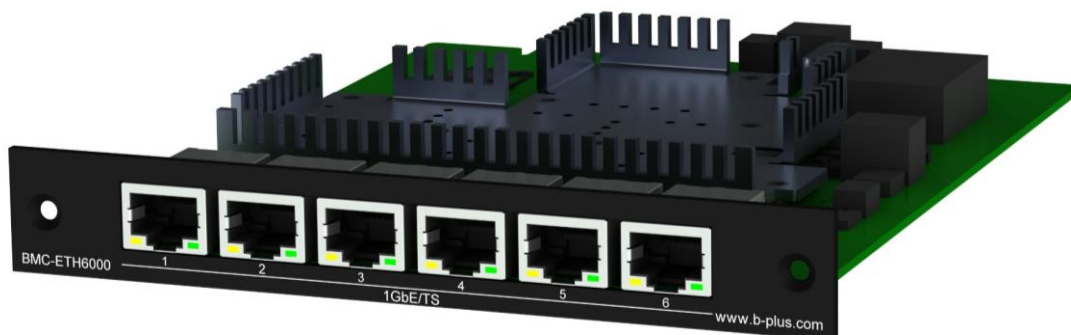
BRICK BMC ETH6000 is part of the b-plus AVETO Toolbox, see [www.b-plus.com](http://www.b-plus.com) for more details.

### Highlights

- Fully supported from b-plus XTSS time synchronization service
- Integrated in BRICK hardware platform time synchronization
- Time synchronization IEEE1588, 802.1AS, PTP

- 6 Port RJ45 1000Base-T IEEE1588 (g)PTP
- Dedicated MAC/PHY controller for each port
- Managed PoE with max. 28W power delivery

- Status indicator for easy functional diagnostics
- Extended temp from -25° to 70°
- Integrated in the  $\mu$ Controller based SIODI system management for save operation



BRICK BMC ETH6000



BRICK2 with BMC ETH6000



## Features

<b>Host Interface</b>	PCIe 2.1, 4 lanes		
<b>Interface</b>	6x RJ45 10/100/1000BaseT(X), with dedicated i210IT MAC/PHY controller for each port		
<b>Time synchronization</b>	HW based time synchronization  fully integrated in b-plus XTSS time synchronization service PTP and gPTP IEEE 802.1AS 2020		
<b>Power over Ethernet (PoE)</b>	Intelligent PSE (power sourcing device) management	For maximum power reason PoE is only available on one slot (upper left side) of a BRICK BMC system	
	Supported IEEE 802.3af classes		
	PoE delivery	Class 0/3 PD 15,4W	Class 2 PD 7W
	Device power	12,95W	6,49W
	# of powered devices	1	Up to 4
<b>Mechanic</b>	Module for integration in BRICKplus and BRICK2 Systems with BMC Add-on		
<b>Cooling</b>	active cooling in BMC Add-on, PWM fan control by host system		

## Specifications

<b>System</b>		
Operating System	Windows 10 IoT Enterprise, Ubuntu 20.04	other on request
Administration	b-plus administration tool	integrated b-plus SIODI API
<b>Electrical Specification</b>		
Supply Voltage	12V	direct powered from host system
Power consumption	typ. 12W	Up to 40W with max. PoC supply
<b>Environment Specification</b>		
operation Temperature	-25°C to +70°C	
non operation	-40°C to +85°C	
Relative Air Humidity	maximum 90 %, non-condensing	
<b>Mechanical Specification</b>		
Dimensions	280 mm (W) x 248 mm (D) x22 mm (H)	
Weight	approx. 0,4kg	
<b>Certification</b>	CE, RoHS, REACH, VCCI, FCC, KC	

## Order Information

Name	Part Number	Description
BRICK BMC ETH 6000	B17575-BMC-ETH-6000	BRICK BMC ETH 6000, 6 port 1000Base-T1 Ethernet Card with Power over Ethernet support, IEEE 802.1AS 2020 (g)PTP TSN support