

BRICK BMC-VB2

Preliminary

Product overview

BRICK Measurement Card BMC

Flexible BRICK Measurement Card based on FlexCard PMC-II with max 8 CAN FD ports.

- Up to 2 cards on one BRICK offers up to 16 CAN FD interfaces
- BRICK HW Timesync trigger (need Software APP support)
- Modular concept with up to 4 various bus tiny, standard configuration 8x CAN-FD
- PMC-II FlexCard based design for prevalent support in ADAS frameworks
- Card can be used in active cooled BMC Add-On
- Extended operation temp from -20 to 70°C
- Power supply direct from BRICK CORE COM
- AVETO™ ready
- Dimension 148x172x22 mm
- Driver support for Windows 64 und Linux 64,

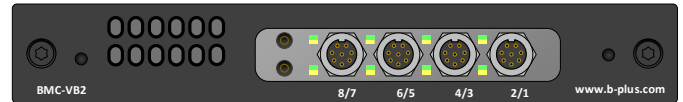
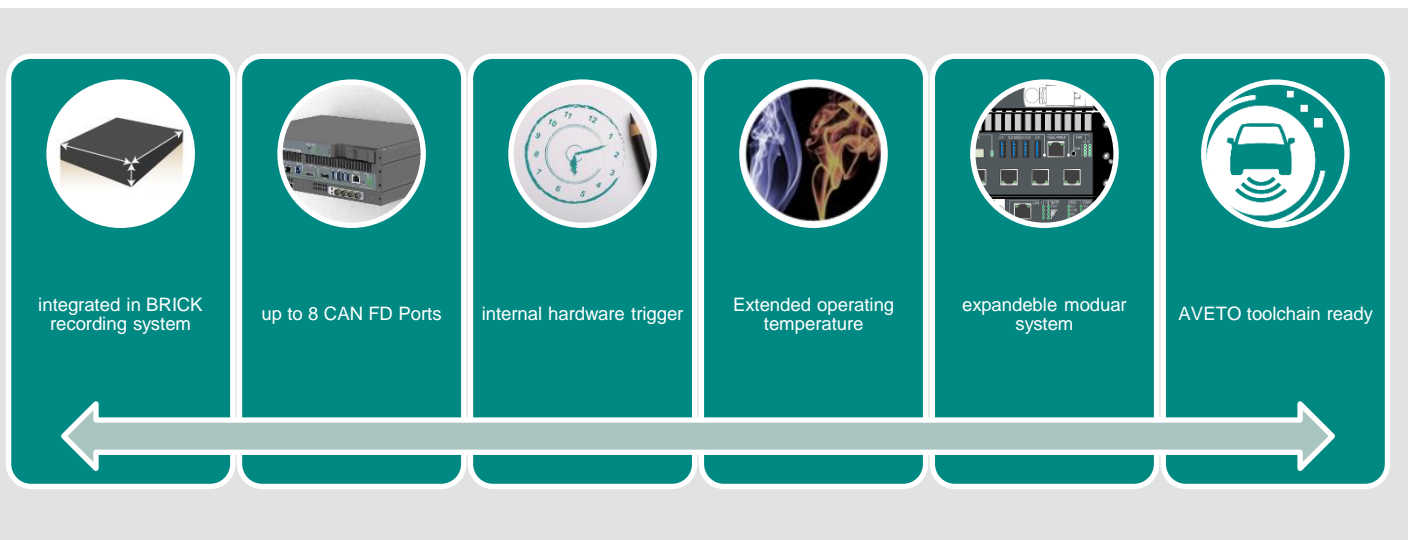


Illustration 1: BRICK Measurement Card BMC-VB2



Illustration 2: BRICK CORE COM with BMC Add On

Highlights



Alle Daten bei 25°C Umgebungstemperatur, falls nicht anders angegeben. / All data at nominal input and 25° C ambient temperature, if not marked otherwise. ▪ Alle Daten dienen nur Informationszwecken und sind nicht als zugesicherte Eigenschaften aufzufassen. / All data for information purposes only, no assured characteristics. ▪ Technische Änderungen ohne vorherige Ankündigung sowie Irrtümer vorbehalten. / Technical modifications without notice and errors reserved. ▪ Belastung mit Extremwerten über einen längeren Zeitraum kann die Zuverlässigkeit beeinflussen. / Strain with extreme values for a longer period may affect the reliability. ▪ Alle Trademarks und Logos sind Eigentum der jeweiligen Unternehmen. / All trademarks and logos are property of the concerning companies. In case of doubts the German version of the document is binding. © b-plus GmbH • 28.01.2020 16:51 • Version: 1.11

Technical information

Interfaces

- Up to 8 CAN FD ports in modular Tiny concept
- Other interfaces on request (FlexRay™)
- Optimized for recording applications

Time synchronization

- Internal PPS trigger for time synchronization
- Triggered counter in relation to BRICK XTSS working clock

System Add On

- Requires a BRICK Configuration with BMC Add On 22mm (2x BMC) or 44mm (4x BMC)
- Up to 2 BMC-VB2 in one system for maximal 16 CAN FD ports on one BRICK system

Connector and Adapter

- Bus cable 8pole Binder connector to DSUB9



Pin	Colour	Name	
1	shield	Shield	Bus A
2	blue	GND/GNDiso	
3	white	Bus_P/High	
4	green	Bus_M/Low	
5	yellow	Bus_P/High	Bus B
6	orange	Bus_M/Low	
7	red	+5V	
8	black	GND	

Pin	Colour	Name	
1	-	-	Bus A
2	green	Bus_M/Low (A)	
3	blue	GND/GNDiso (A)	
5	shield	Shield (A)	
7	white	Bus_P/High, LIN (A)	Bus B
4	orange	Bus_M/Low (B)	
6	black	GND (B)	
8	yellow	Bus_P/High, LIN (B)	
9	red	+5V (B)	

Software support

- 64Bit Windows 10 IOT Enterprise
- Linux 64Bit
- Other OS on request

High-End-ADAS Frameworks

- Application ready for the AVETO toolchain and 3rd party frameworks (API needs to be integrated)

Power Supply

- Power supply direct form BRICK CORE COM
- Up to 30W max. power consumption

Operating Temperature Range

- 25°C to +70°C

Housing BRICK with BMC Add on

- Standard BRICK System (BMC 22mm Add on):
B:320mm, H:88mm, T:250mm

Certification (BRICK System)

- CE / FCC / VCCI / ICES (depending on integrated system)
- RoHS / REACH

Name

BRICK Measurement Card BMC-VB2 0008

BRICK CORE COM6820EQ

Bus cable 200 8B71 2m

Order-no.

B17575-BMC-VB2-0008

B17575-BCC-107-BA01

4001596

Description

Measurement Card Add On with 8 CAN FD ports for recording

High Performance Embedded Communication and recording Unit, 11x 1GbE and 2x 10GbE, 6x CAN-FD

Bus cable 8pole Binder connector to DSUB9