

BRICK CORE COM

Powerful Logging Hardware for High-Performance Measurement Solutions

What is BRICK CORE COM?

BRICK CORE COM is a powerful and robust computer, which is specially designed for parallel logging of XCP on Ethernet, raw radar data and video streams. With a very high logging rate of more than 1 GByte/s, it is also suitable for ambitious ADAS projects.

BRICK CORE COM is available in different variants with the following optional add-ons: The STORAGE BAY add-on accepts interchangeable BRICK STORAGE cartridges with up to 16 TByte of SSD memory. The PCIe add-on offers two PCIe slots for network interface cards or other PCIe cards. BRICK CORE COM can be ordered with various project-specific, preconfigured software packages. Along with interactive use of CANape under Windows, the dedicated logging solution CANape log is also available under the Vector Tool Platform (VTP).

Functions

Logging Solution with CANape log

When combined with CANape log, BRICK CORE COM is a high-performance stand-alone logger. Exporting existing CANape logging projects is a quick and uncomplicated process. A mobile interface implemented as a web service via WLAN is available for triggering and monitoring measurements. Additionally, it can display individual

measurement signals and status information such as the amount of remaining memory space. CANape can be used to configure the logger hardware. This is done on any PC that is no longer needed during the measurement.

Time Synchronization Options

- > Ethernet time synchronization per IEEE 802.1AS / IEEE 1588 as master or slave
- > UTC reference time via the installed GPS receiver
- > Fully supported in CANape 17.0 and CANape log

Overview of Advantages

- > Continuous logging of measurement data at rates of more than 1 GByte/s
- > Compact design suitable for automotive use
- > Numerous interfaces for high data throughput with 2x 10 Gbit/s and 6x 1 Gbit/s Ethernet and USB 3.0
- > Add-on for IEEE 802.1AS time synchronization
- > Extended temperature range from -25°C to +70°C
- > STORAGE BAY add-on for interchangeable BRICK STORAGE cartridges with up to 16 TByte capacity
- > PCIe add-on for two PCIe cards



BRICK CORE COM with STORAGE BAY and BRICK STORAGE Cartridge

Technical Data

BRICK CORE COM	
Processor and Main Memory	Intel Core i7-5700EQ (4 cores operating at 2.6 GHz) 16 GByte RAM Internal SSD with 128 GByte capacity
Ethernet	2x 10 Gbit/s Ethernet (RJ45) 6x 1 Gbit/s Ethernet (RJ45), 4x with HW time stamps
USB	4x USB 3.0 host ports
Additional Interfaces	Control signals for power management GPIO with 4 inputs and 4 outputs Installed GPS receiver WLAN option for mobile user interface Microphone input, e.g. for measurement trigger comments Slot for CFast memory cards DisplayPort
Time Synchronization	IEEE 802.1AS, with GPS-based master clock
Operating System	Vector VTP for CANape log or Windows 7 Pro 64 bit
High-End Logging	CANape log as scalable logging solution
Operating Temperature Range	BRICK CORE COM: -25°C to +70°C BRICK STORAGE cartridge: 0°C to +70°C
Power Supply	Designed for both 12 V and 24 V electrical systems Resistant to voltage drops of down to 6.5 V Power consumption between 40 and 120 watts, depending on configuration and operating mode
Housing	Robust aluminum profile housing
Dimensions (WxHxD)	BRICK CORE COM: 320 mm x 44 mm (1 U) x 250 mm STORAGE BAY add-on: 320mm x 22 mm (0.5 U) x 250 mm PCIe add-on: 320mm x 44 mm (1 U) x 250mm
Certificates	CE / FCC / ICES RoHS / REACH (E13 upon request)
BRICK Portfolio	
BRICK CORE COM 5700EQ-16-128-ST	BRICK CORE COM with STORAGE BAY add-on (H: 1.5 U)
BRICK CORE COM 5700EQ-16-128-ST-P	BRICK CORE COM with STORAGE BAY and PCIe add-on (H: 2.5 U)
BRICK CORE COM 5700EQ-16-128-O-P	BRICK CORE COM with PCIe add-on (H: 2 U)
BRICK STORAGE Cartridge 4 TB	Interchangeable SSD memory module for STORAGE BAY with 4 TByte capacity
BRICK STORAGE Cartridge 8 TB	Interchangeable SSD memory module for STORAGE BAY with 8 TByte capacity
BRICK STORAGE Cartridge 12 TB	Interchangeable SSD memory module for STORAGE BAY with 12 TByte capacity
BRICK STORAGE Cartridge 16 TB	Interchangeable SSD memory module for STORAGE BAY with 16 TByte capacity
BRICK UPS 200	Noninterruptible power supply with 160 Wh for consumers drawing up to 200 watts
BRICK THUNDER DOCK	Station for reading out BRICK STORAGE cartridges with a Thunderbolt interface to PC

