



Data Sheet

BRICK SE

BRICK SE is a robust communication and processing unit for the acquisition of Ethernet data streams.

The BRICK SE is your reliable partner for recording, processing, and storage of data streams. Designed as a robust and cost-effective entry-level solution, it offers a simple removable storage concept and robust performance specifically tailored to the needs of industrial applications.

With its extended temperature range and durable components, the BRICK SE is ideal for a wide range of applications. Benefit from our seamless concept and secure your long-term investment thanks to the high availability and compatibility of our components.

Highlights

- Intel® Core™ i7 Processor, 32 GB DDR4
- Integrated HD Graphics 530
- Hardware time synchronized Ethernet interfaces (g)PTP (need XTSS license)
- Integrated GNSS for master time base
- 2x 10GBase-T Ethernet
- 6x 1000Base-T Ethernet
- removable U.2 / U.3 storage
- PCIe x8 Gen3 expansion slot
- Highly integrated and compact
- Extended temperature range



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Features

Ethernet	2x 10GBase-T, RJ45	(g)PTP IEEE 802.1AS-2020
	5x 1000Base-T, RJ45	(g)PTP IEEE 802.1AS-2020
	1x 1000Base-T, RJ45	management port
	integrated Wi-Fi module	optional
Video	DP Interface	Integrated HD Graphics 530
GNSS	integrated GNSS module	
I/O	remote on (ignition), 4x GPI, 4x GPO, SYSCRTL	sys control bus for external components like BRICK UPS, SIODI control API
USB	4x USB A 3.1 Gen1	
SATA external	2x eSATA 6G via SFF8088	eSATA need a self-powered device
CFast	1x CFast socket	on back site, securable
NVMe SSD	U.2 / U.3 NVMe SSD enclosure	
PCIe	1x PCIe 3.0 x8 Slot (mech. x16)	max. 75 W, no additional power connector


Specifications

System

CPU	Intel® Core™ i7-6820HE, HD Graphics 530	
Memory	32 GB DDR4 RAM, 128 GB M.2 internal	
Ethernet	1x Intel® x550 dual 10GBase-T Controller	
5x Intel® I210 1000Base-T controller	hardware based platform time synchronization for highest accuracy	
Operating System	Ubuntu 20.04	other on request
Electrical Specification		
Supply Voltage	12 V vehicle supply	
10 V – 28 V DC wide range	6 V – 32 V short term, cranking save	
Power consumption	100 – 120 W	incl. U.2 storage
Max. Power consumption	200 W	incl. PCIe slot power
Environment Specification		
operation Temperature	-25 °C to +70 °C	@typical performance
non operation	-40 °C to +85 °C	
Relative Air Humidity	max. 90 % non-condensing	
Mechanical Specification		
Dimensions	320 mm (W) x 250 mm (D) x 88 mm (H)	
Weight	approx. 7 kg	
Certification	CE, RoHS, REACH	



Order Information

Name	Part Number	Description
BRICK-SE 	B17575-BCC-121-SA04	BRICK-CORE-COMplus SE rugged Ethernet recorder and processing unit
XTSS Tine Sync Service	B15583-XTS-010-WD01	XTSS Base and TR+UDP license on WiBu CmStick

Order Information Accessories

Name	Part Number	Description
220 W AC/DC power supply	B17575-ACC-004-0001	BRICK Accessories Set 002 AC Power + EURO CEE7/7, 220 W AC power supply, In: 85-264 VAC, Out: 24 V DC / 9,2 A
BRICK UPS SB200	B17575-UPS-003-0000	Compact DC/DC power unit with uninterruptible power supply function and integrated batteries
BRICK Protection bar 66 mm	B17575-ACC-008-0066	Set of 2 pieces. protection and handle bar 66 mm for BRICK2
BRICK Cable Guard	B17049-ACC-008-0000	Cable Guard 66 mm with handles, screws, and cable ties
BRICK Installation set for ITEM Profile 20	B17575-BIM-001-0088	Installation set 88, for ITEM 20 rack mounting
BRICK 19inch 3U Adapter Frame	B17575-ACC-005-0001	3U adapter to mount a BRICK system component in a 19" rack