C6 COMPACT 3

EMBEDDED AUTOMATION DEVICE

EN

POWERFUL AND COMPACT

The C6 COMPACT 3 is the right choice for automating applications with low to medium complexity. Its concept is based on a Linux operating system and offers an open microservice architecture. The container-based technology allows various software functions to be integrated and organised. The system is future-proof thanks to the use of the latest industrial technology – for long-term availability. The real-time-capable controller is programmable via IEC 61131 and enables synchronised and coordinated movement of machines via the existing EtherCAT master.

FUNCTIONAL AND COST-EFFECTIVE

Besides the actual machine automation, the C6 COMPACT 3 can also be used to perform various tasks. For example, it can act as a gateway between a higher-level control system and a programmable control system with KEB's Motion functionality. An OPC UA server (in future also TSN) acts as an interface. The control system can also be used as an HMI server device. It communicates with one or more third party systems and enables browsers to make the content available via an HMI server. The COMPACT 3 microservice architecture ensures simple integration of various software components.

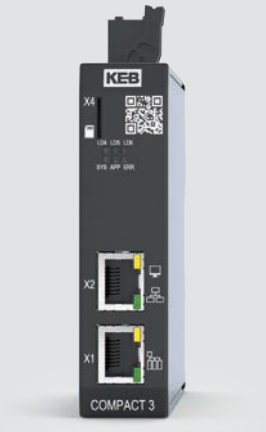
HIGHLIGHTS

- Low-cost control
- Real-time capable motion control
- Gateway, IIoT/edge device, HMI server
- Linux-based, open microservice architecture

C6 COMPACT 3

CPU	Processor	Dual-Core 64-bit Arm® Cortex®-A53 1 GHz, Single-Core Cortex-R5F 800 MHz, Single-Core Cortex-M4F 400 MHz
	RAM	LPDDR4 1 GByte (Optional 2 GByte)
Memory	Flash	eMMC 4 GB (Optional up to 128 GB)
	Retain	Optional (NvSRAM / MRAM / FRAM min. 32 kB)
Interfaces	Ethernet	2 x Ethernet Ports 10/100 (+ 1 Ethernet Port 10/100/1000 (optional))
	CAN	Optional CAN Master/Slave (galvanic isolation)
	Serial	Optional RS232/485 (galvanic isolation)
	Memory expansation	uSD Slot (external) (Memory expansation / backup and restore)
	Internal	Internal Board-to-Board-Connection (customer-specific expansion boards)
	LED	6 LEDs (double row, system, fieldbus, individual, ...)
Power supply		24 V DC (19.2 V ... 30 V)
Operating temperature		-20 °C ... 55 °C fanless (Rel. humidity 5% ... 85 % without condensation)
Mechanical	Assembly	DIN rail
Dimensions	W x H x D	25 mm x 100 mm x 132 mm

HARDWARE VARIANTS



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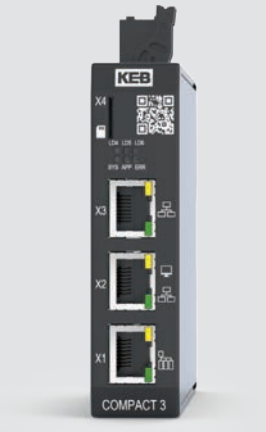
X2 – Ethernet Port
(10MBit/100MBit)

X1 – EtherCAT Master
(10MBit/100Mbit)



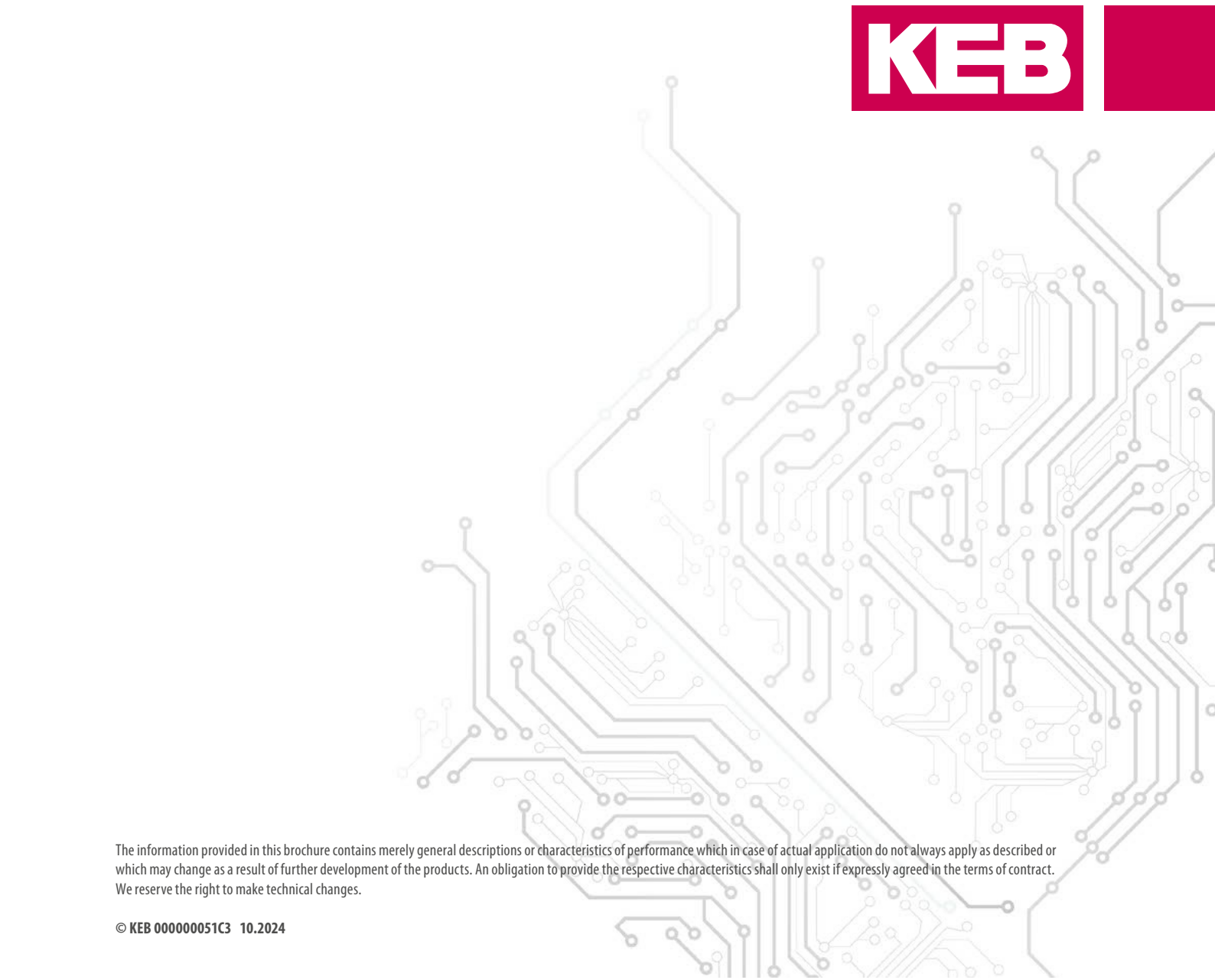
00C6BE1-1002

X3 – Ethernet Port
(100MBit/1000MBit)
(TSN Support)

X2 – Ethernet Port
(10MBit/100MBit)

X1 – EtherCAT Master
(10MBit/100MBit)
(alternative Ethernet)

Further variants on request



The information provided in this brochure contains merely general descriptions or characteristics of performance which in case of actual application do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract. We reserve the right to make technical changes.

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