



E°CONTROL LBM MODULE

The LBM modules add inputs and outputs for digital and analog signals, analog axis and serial interfaces to controllers with a local bus (e.g. EXC66). The module family has the following properties:

- short deterministic response times
- Transmission security on the local bus by CRC checksums
- high bandwidth (up to 17.6 Mbit / s full duplex)
- Synchronization of inputs and outputs in various E°Control LBM modules (e.g. axis interface E°Control LBM ARI01)

LBM – Bus coupler



- **LBM BKCAN** – CAN-Bus coupler

LBM – Digital Modules



- **LBM DIO88**: 8 digital inputs and 8 digital outputs
 - Inputs 24 VDC / 2.4 mA
 - Outputs 500 mA output current at 24 VDC
 - sensor and actuator supply
- **LBM DI16**: 16 digital inputs 24 VDC / 2.4 mA
 - Sensor supply
- **LBM DO16**: 16 digital outputs
 - Actuator supply
- **LBM DOM04**: 4 digital outputs with 2.5 A
 - Actuator supply

LBM – Analog modules



- **LBM AIO22**: 2 analog inputs and outputs, current / voltage, 16-bit resolution
- **LBM PWM01**: 1 PWM output, 1 analog output with 0-10 V and 16-bit resolution

LBM – Function- and communication modules



- **LBM ARI01:** Axis interface with encoder interface, analog output and digital inputs
 - Incremental Encoder Interface or SSI interface for absolute encoders
 - analog output with 16 bit resolution and + - 10V
 - Fast trigger input with 500 kHz cutoff frequency
- **LBM SER02** – communication module 2 serial interfaces
 - RS-232-, RS-422, RS-485 or TTY operation
 - Baud rate: 300 to 115200 baud, parity: None, Even, Odd, Mark, Space
 - RTS / CTS operation, even with RS-422

LBM – Power supply and additional modules



- **LBM PWR04** – power supply for ExC66 and LBM modules
- **LBM CON16** – terminal module for duplication of the 24 VDC process voltage
- **LBM EXT01** – Extension of the local bus to operate a second row of modules
- **LBM LVC03** – level converter for probes
For probes with 12 VDC supply to the fast trigger input of the LBM ARI01

E°EXC66 – The control of the LBM for modules



- Embedded Controller for SPS / CNC / Motion
 - CODESYS V2.3- runtime system
 - Up to 16 CNC- or up to 60 motion axes
 - CNC with a variety of technology-specific functions (from eccentricity grinding up to oxygen cutting)
 - CNC kernel with large instruction set
- Easy configuration by automatically detecting of supported drives and powerful engineering tool
- Bus interface to use the LBM modules
- Customer specific versions possible



Full documentation is available on our
Engineering Documentation Platform E°EDP.

edp.eckelmann.de

