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STÖRMELDESYSTEME

19" EtherCAT-Mainboard for analog and digital I/O plug-in cards

Type designation:

EC-Mainboard 1/16

Backplane 3U 84M for
1 power supply
+16 IN/OUT plug-in cards
in EtherCAT technology



System features:

- Mainboard in 19" rack 3U 210mm depth
- PSC-Version 19" rack 4U 270mm depth
- 1 slot for power supply 12M
- 1 slot 4M for front Ethernet ports
- 16 slots 4M for direct IN/OUT plug-in cards inserted
- Back side 2 Ethernet RJ-45 jacks IN/OUT
- EMC-values: UNITRO-Standard in accordance with EN 61000

Technical data:

1. Type of construction:
19" rack 3U 84M 210mm depth
PSC-Version: 19" 4U 84M 270mm
depth for 4U power supply and
1U cable jumpering
2. Weight:
approx 3000g (without plug-in cards)
3. Climatic conditions:
in accordance with UNITRO-Standard
4. Supply voltage:
via power supply card 230V AC
5. Bus connection:
each one 10/100 Ethernet jack on the
rear, bus input and output.
Alternatively, front side via separate
4M plug-in card.
6. Integrated system components:
1x Beckhoff BGA / ASIC as EtherCAT Slave Con-
troller (ESC) for the physical implementation of the
Ethernet ports on the internal E-Bus.
The 16 card slots each have a separate ESC with
a serial peripheral interface (SPI) for "on-the-fly"
analysis of the Ethernet frame is received and
control the IN/OUT expansion cards.
7. Slots:
 - 1x slot 12M with 32-pin D female connector
shielded, for power supply
 - 1x slot with two 4Mx 15-pin 2.54mm female
connector for direct plug-in card inserted
 - 1x slot with 4M front 10/100Mbps
RJ45 Ethernet jacks
 - 16x slots with 2x 15 pin. 2.54mm female
connectors plugged directly for IN/OUT
expansion cards
8. Leakage distances and clearances:
in accordance with UNITRO-Standard
9. EMC, immunity of interference:
UNITRO-Standard, in accordance with EN 61000