

VME-DIO32-L

VMEbus Board with 32 Digital I/Os as Successor of VME-DPIO32

Process IOs with wide Voltage Range

- 32 digital inputs, -3 ... 32 V DC
- 32 digital outputs 18... 32 V DC/0.5 A

Optical Isolation and Protection

- Optical isolation of all inputs and outputs
- Short circuit protection also resists permanent short circuits for all outputs
- Error detection of outputs is integrated
- Overvoltage protection of inputs

VME-DIO32-L as Successor for proven esd VME IO Board

- VME-DIO32-L is developed as successor for VME-DPIO32/63140 (V.1607.04)
- Compatibility in terms of design and interfaces is ensured, however the range of functions is reduced

Opto-isolated Process I/Os

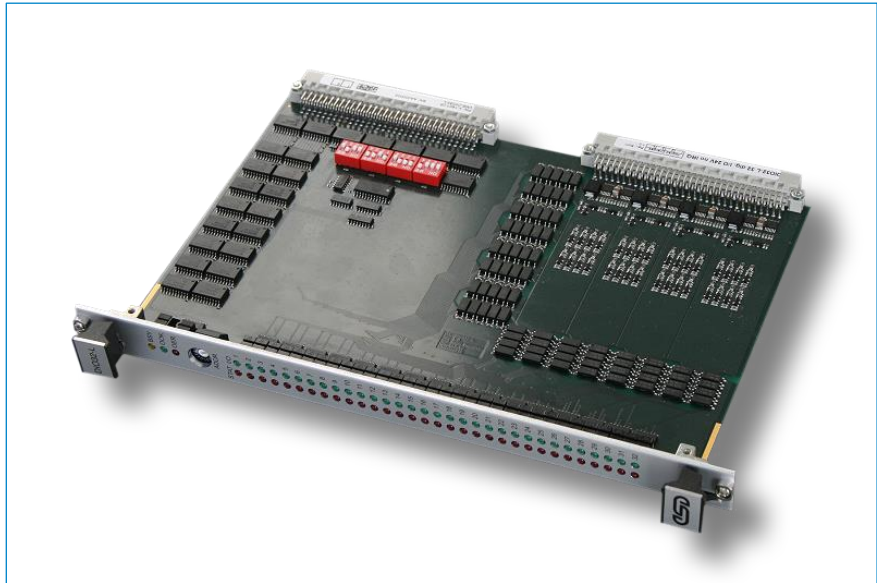
The VME-DIO32-L provides 32 opto-isolated digital IO channels. The IO channels can be set and read out via a digital process interface. The IOs and the power supply are connected via the P2 connector of the board.

The 32 digital IO channels are arranged in 4 groups of 8 IO channels each, whereby each group must be supplied with power independently. These 4 groups are galvanically isolated from the VME system and from each other.

The VMEbus interface of the VME-DIO32-L version uses addressing as A24 slave and D16/D08(E0).

Successor for proven esd VME IO Board

The VME-DIO32-L can be used as a replacement for the VME-DPIO32/63140 due to the compatible P2 pinning and the matching VMEbus interface. The newly developed board offers a reduced range of functions to transparent reading and writing of I/Os. Advanced functions like PWM, counter or interrupt generation are not supported.



Display of Status with LEDs

The VME-DIO32-L has three status LEDs to indicate the VME activity (yellow) and green and red to indicate the power good of the output channels combined for all groups.

Each of the 32 IO channels is represented by one green and one red LED. All LEDs are located on the front panel.

The green LEDs indicate the input status of the respective channel, while the red LEDs signal an output short circuit or an overtemperature protection shutdown of the individual channels.

P2 Adapters support easy Wiring for VME-DIO32-L

The VME-DPIO32-P2VCC (V.1607.90) accessory for the VME-DIO32-L version can be used to feed in the power supply for the output groups. If a separate wiring of the output groups is not necessary, the adapter VME-DPIO32-P2VCC-3X (V.1607.93) is a cost-effective alternative. It can supply up to three VME-DIO32-L, which are installed side by side in three VMEbus slots.

Wide Voltage Ranges

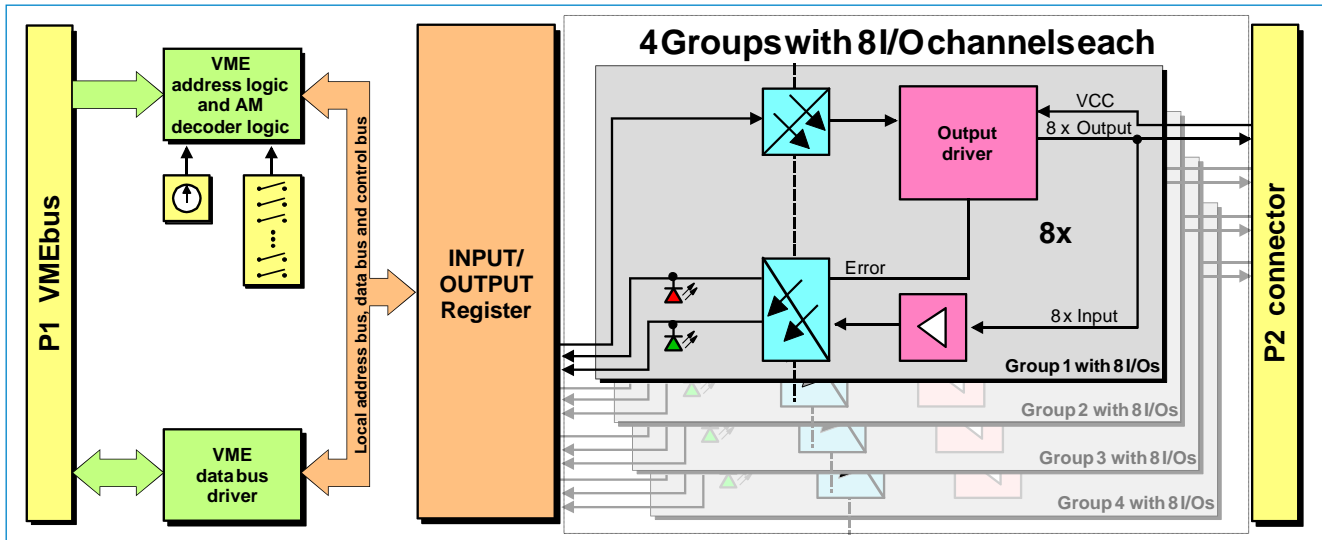
The digital output channels use an intelligent high-side power switch and allow an operating voltage range of 18 VDC to 32 VDC with a nominal voltage of 24 VDC. The nominal current per channel is 500 mA.

Customization on Request

Customized options are available for customized series production in reasonable quantities. Please contact our sales team for detailed information.

VME-DIO32-L

VMEbus Board with 32 Digital I/Os as Successor of VME-DPIO32



Technical Specifications

Digital Inputs/Outputs:	
Number	32 (IO1 – IO32), arranged in 4 groups with 8 channels
I/O-configuration	Input/Output ports, Status of dig. outputs can be read
Type of the outputs	Plus switching (High Side Driver)
External power supply voltage	18 ... 32 V Arranged in 4 groups, Maximum current per group: 6A
Digital Inputs	
Digital Inputs	-3 V ... 32 V (maximum external power supply) Input threshold: $U_{ON} \geq 12\text{ V}$ $U_{OFF} \leq 5\text{ V}$ Input current (24V): Minimum 4 mA, Maximum 6 mA
Digital Outputs	Output current: Typical: 0.50 A Maximum: 0.75 A Max. overcurrent-limit: 1.5 A Electrical Isolation voltage: 5000 V _{rms} (1 minute)
VMEbus.:	
VME interface	IEEE 1014 / D
Addressing	A24 Slave
Transfer mode	D16 / D08(E0)
VME base address	Adjustable by 3 DIP-switches, and a rotary switch (ADDR) in the front panel
Interrupter	none

General:	
Power supply voltage	4.85 V ... 5.25 V DC / I _{TYPICAL} : 0.65 A
Ambient temperature	0 °C ... +70 °C
Relative humidity	Max. 90 % (non-condensing)
Dimensions	Eurocard Double-height (6U), 1 Slot width 160 mm x 233,35 mm x 20,1 mm
Connectors	VME: P1 (DIN41612-C96) I/Os: P2 (DIN41612-C64)
Weight	Ca. 470 g
Order Information:	
Hardware	
VME-DIO32-L	32 digital I/Os, A24 Slave, D16 / D8E (O) transfer mode
Accessories	
VME-DPIO32-P2VCC	24 V connection for P2
VME-DPIO32-P2VCC-3X	24 V connection for P2 for 3 slots
Software Support¹	
VME-DPIO32-OS9	C driver for OS-9 as source code
VME-DPIO32-VxW	C driver for VxWorks
¹ For detailed information about driver availability for your operating system please contact our sales team.	