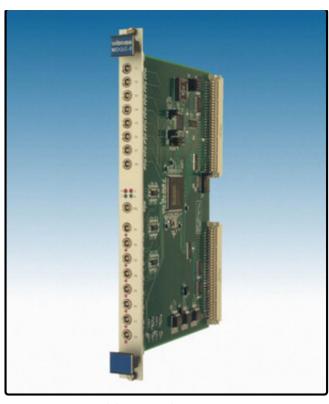




# MDGG - 8 multi functional VME Logic Module

Request Quote



MDGG - 8 multi functional VME Logic Module





The MDGG-8 is a single wide 6U VME multi functional FPGA based delay logic and timing module which provides often needed functions as gate, delay & pulse generator, logic fan in - fan out, coincidence register and scaler / pre-scaler. The module has 8 inputs and 8 outputs with NIM levels, which are free configurable in regards to their used functionality.

The MDGG-8 is based on a XC3S400 FPGA with 36kB of block RAM. Two FPGA configuration files can be stored in the on-board flash memory from which the FPGA can boot at power-on (selection by a jumper). The flash memory can be reprogrammed via VME for firmware upgrades.

MDGG-8 can be readily customized within the constraints set by the hardware resources. It may be considered an 9-input/8output/12-diagnostic LED universal logical module for which the user can develop his own firmware using the free XILINX WebPack software.

## Main features

- · FPGA based VME logic module
- Pre-programmed standard logic functions as delay gate generator, pulser, scaler, coincidence registers selectable via VME registers
- · Interrupt capability
- > single wide 6U A24/D32 VME slave module
- > 8+1 NIM inputs (LEMO connectors), 8 NIM outputs (LEMO connectors), can be programmed to be inverted / non-inverted
- 8 channel and 4 diagnostic LED's
- Interrupt capable, IRQ selected by jumper
- > Firmware upgradable via VME
- > Built-in functions (firmware dependent)
  - > programmable delay / gate / pulse generators, start/stop latches or pre-scalers (8 ns steps)
  - > gated or latching scalers with 1kx32FIFO per channel
  - > 8 bit coincidence register
  - > combinatorial gates (2 fold OR of 8 fold AND)
  - > Flexible configuration and multiplexing of NIM inputs / outputs and logic devices
  - > Programmable Veto inputs
  - > VME triggering of logic devices and reset of scalers

Item	Description			
MDGG-8	8 Channel MDGG-8 with LEMO I/O			

### **Specifications:**

Packaging	single wide 6U VME module					
Inputs:	8 channel inputs + 1 common (LEMO 00)					
Outputs:	8 channel outputs (LEMO 00)					
LED's:	12 Diagnostic LED's, driven by signal stretchers					
Firmware:	Programmed via VME					
Interface:	VME A24 D32, base address via jumpers.					
VME IRQ:	Capable of asserting VME IRQ, level selected via jumper					
Power:	5V, 1A					

#### **Product Data Sheet**

16/02/2016

MDGG - 8 multi functional VME Logic Module:

**Print Product Data Sheet** 

	_				_	4		.:	_	
D	$\mathbf{a}$	~1	ш	m		n	га	TI	n	n

Manual and Tech-Notes :	<u>MDGG</u>
Introduction:	WIENER VME VXI VXS introduction

## **Downloads**

CD:	<u>MDGG</u>	

©2013 W-IE-NE-R, Plein & Baus, GmbH. All Rights Reserved