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Find the *RTD Embedded Technologies DM35888HR* at our website: *Click HERE*

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An AS9100 and ISO 9001 Certified Company



DM35888HR

PCIe/104 64-Channel High Density Isolated Digital I/O

*Operating Temperature **-40°** to **+85°**C*

Key Features



- PC/104 form factor
- PCIe/104 stackable bus structure
  - PCIe universal expansion bus (Type 1 or Type 2)
- PCIe x1 interface
- PCIe link repopulation allowing increased PCI Express stack capacity
- Broad input voltage range
- High-current outputs
- -40 to +85°C Operation

Description

The DM35888HR provides Opto-Isolated Digital Inputs and Outputs to interface with a variety of devices. The Inputs allow for a broad range of input voltages, and are compatible with are compatible with 5V, 12V, and 24V systems. The high-current Outputs allow for driving LEDs, relays, and solenoids. The PCIe interface provides compatibility with the latest generation of CPUs, and the PCIe lane repopulation allows for virtually limitless system expansion.

Isolated Input



- 48 Opto-Isolated digital Inputs
- Two 50 position 0.1” DIL headers
- Maximum input voltage:
  - Standard version: $15V_{DC}$
  - 24V version: $30V_{DC}$
- Reverse-polarity protection
- 2500 $V_{AC(RMS)}$ isolation
- Custom settings available

Isolated Output

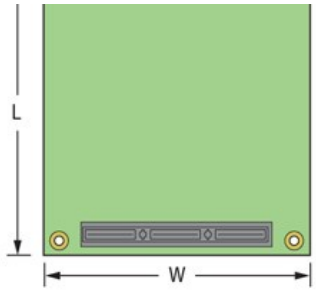
- 16 Opto-Isolated digital outputs
- One 50 position 0.1” DIL header
- Open-Collector outputs
- 4.75k Ohm pull-up resistor
- Maximum output current: 100mA at 55 C, 50mA at 85C
- Maximum output voltage: 30V
- 2500 $V_{AC(RMS)}$ isolation

Software

- Linux 2.6.x and 3.x Kernels
- Windows 7 (32-bit and 64-bit), Windows 8.1 (32-bit and 64-bit)
- Source code provided for easy porting to other platforms, including RTOSes
- Example programs with source code provide a starting point for developing custom applications



Physical Attributes



- Dimensions
  - Length (L): 3.775 inches (95.89 mm)
  - Width (W): 3.550 inches (90.17 mm)
  - Stand-off Height: 0.600 inches (15.24 mm)
- Weight: Approximately 0.14 lbs. (0.06 Kg)
- Standard Operating Temperature, 90% humidity non-condensing: -40 to +85°C
- Storage Temperature: -55 to +125°C
- MTBF: 1,909,967 hours
- Power Requirements: 2.5 W @ 5 V typical

Recommended Accessories

- XT50: 3 foot, 50-pin, twisted-pair cable
- TB50: 50-pin screw terminal board
- XB50: 50-pin screw terminal board with prototyping area

Ordering Information

Part Number	Description
DM35888HR	PCIe/104 64-Ch. High-Density Isolated Digital I/O for 5V and 12V systems
DM35888HR-24V	PCIe/104 64-Ch. High-Density Isolated Digital I/O for 24V systems

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