

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Visit our website - *Click HERE*

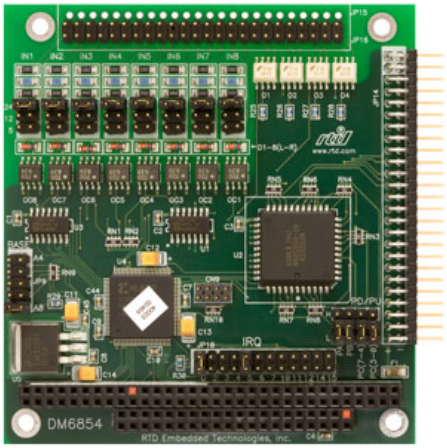
DM6854HR

Isolated Digital I/O dataModule

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

Key Features

- PC/104 form factor with stackable ISA bus
- Isolated Inputs
  - 8 Opto-isolated digital inputs with jumper selected range
  - +5V typical input range
    - On at 2.4 Volts
    - Maximum input 15 Volts
  - +12V typical input range
    - On at 7.9 Volts
    - Maximum input 36 Volts
  - +24V typical input range
    - On at 14 Volts
    - Maximum input 50 Volts
  - Custom settings available
  - Reverse-polarity protection
  - Masking for interrupts
  - 1500 Vrms isolation
- Isolated Outputs
  - 4 Opto-isolated open-collector digital outputs
  - Minimum output current: 4mA (8mA typical)
  - Maximum output voltage: 30V
  - 1500 Vrms isolation
- Non-Isolated I/O
  - 24 non-isolated digital I/O lines
  - 8255 compatible
  - Three 8-bit ports
  - Jumper selectable pull-up/pull-down resistors for each port
- Connectors
  - Isolated Inputs and Outputs:
    - -H: Standard 48-pin 0.1" DIL header
    - -S: 24-socket screw terminal
  - Non-isolated I/O: Standard 50 position 0.1" DIL header



DM6854 Isolated Digital I/O dataModule



Rugged IDAN configurations available

Description

For industrial control and high-reliability applications, the DM6854HR offers a powerful combination of digital I/O resources on one board. Isolated I/O consists of an 8-bit programmable digital input port and a 4-bit open-collector Opto-isolator output port. These lines can be used to safely interface to industrial equipment where ground loops or high voltages exist.

The Opto-isolated digital inputs also have programmable interrupt and strobe functions. Bits can be masked and inverted to generate a hardware interrupt and an external strobe on an output connector, relieving the host PC from polling the input port. This function is extremely useful when monitoring for a specific condition on one or any of the inputs.

The DM6854HR also offers general purpose non-isolated digital I/O on 24 digital I/O lines. These can be used to drive LEDs or LCD character displays, read button or switch inputs, etc. The I/O lines are 8255 compatible and are grouped into three ports. Each port has a jumper for an optional pull-up or pull-down resistor network.

Two I/O connectors are used. Non-isolated digital I/O is handled by a 50 pin header on the right side of the board. Isolated digital inputs and outputs can either use discrete, screw terminal wire connectors or a DIL header for flat cable interfacing.

Software

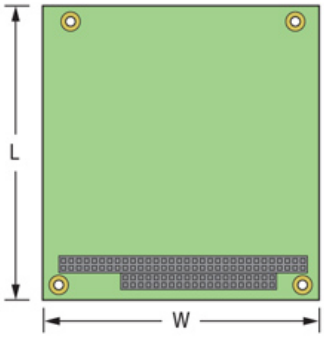
- Includes software packages for the following Operating Systems:
  - DOS
  - Windows 98, NT4.0, 2000, XP/XPe
  - Linux 2.4.x and 2.6.x
- Source code provided for easy porting to other platforms, including RTOSes
- Data acquisition toolkits such as LabVIEW and MATLAB may be used with the Windows drivers
- Example programs with source code provide a starting point for developing custom applications

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

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 0.34 lbs. (0.15 Kg)
- Standard Operating Temperature, 90% humidity non-condensing: -40 to +85°C
- Storage Temperature: -55 to +125°C
- MTBF
  - DM6854HR-H: 945,656 hours
  - DM6854HR-S: 911,530 hours
- Power Requirements: 0.85W @ 5 VDC typical



Ordering Information

Part Number	Description	Value OEM
DM6854HR-H	Opto Input/Output dataModule with 0.1" headers	$489
DM6854HR-S	Opto Input/Output dataModule with screw terminal blocks	$509

RTD Embedded Technologies, Inc.

Designed and Made in the USA

sales@rtd.com | +1-814-234-8087

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP