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TECHNOLOGY GROUP

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Find the *Nallatech BenTEST* at our website: *Click HERE*

BenTEST

Debug modules for DIME-II systems

Digital I/O series

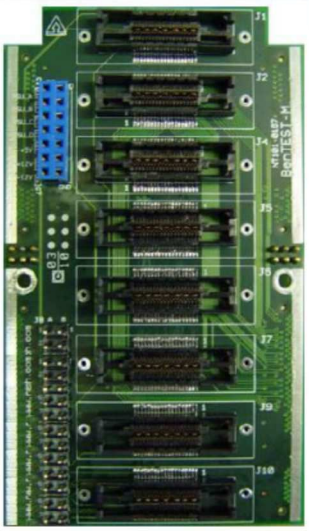
Overview

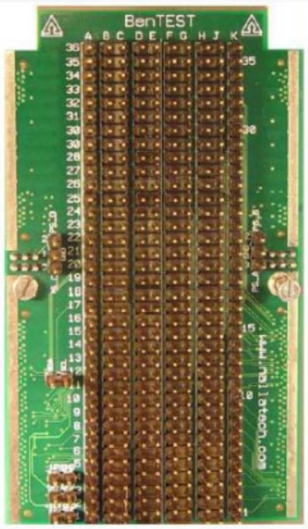
The BenTEST series gives you direct access to each of the DIME-II communication buses.

These simple modules are highly effective test and debug tools, for developing and verifying systems. As a part of the Nallatech DIME-II family, you can integrate the BenTEST into your system.

The BenTEST-H DIME-II module features over 300 0.1" pitch headers for access to all DIME-II bus signals.

The BenTEST-M DIME-II module accesses the same DIME-II bus signals using MICTOR connectors.





Debug & Test Modules for Nallatech FPGA Computing Systems

Key features

- DIME-II expansion modules
- Available with either 0.1" pitch headers or MICTOR connectors
- Compatible Nallatech motherboards available for PCI-X, PCI, PCI-104 and VME64-VXS

Benefits

- Standard digital interface connectors

  Easy access to multiple DIME-II bus signals
- Supported in FUSE software

  Easier application development, enhanced functionalit
- Ready to use solution for demanding applications

  Shortens development times and reduces risk

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Technical specification

High-speed Digital I/O

- BenTEST-H
  - 338 0.1” digital headers
  - 64-bit Adjacent In bus
  - 64-bit Adjacent Out bus
  - 64-bit Local bus
  - Eight 12-bit P-Link buses
  - 21-bit GPIO bus
  - Three clocks
  - 19 Control and monitoring signals
  - +5V, +12V, -12V reference pins
  - +1.5V, +1.8V, +2.5V, +3.3V reference pins
- BenTEST-M
  - 290 pins through eight MICTOR connectors
  - 64-bit Adjacent In bus
  - 64-bit Adjacent Out bus
  - 64-bit Local bus
  - Four 12-bit P-Link buses
  - 21-bit GPIO bus
  - Three clocks
  - 19 Control and monitoring signals
  - +5V, +12V, -12V reference pins
  - +1.5V, +1.8V, +2.5V, +3.3V reference pins

Software

- Compatible with Nallatech FUSE software

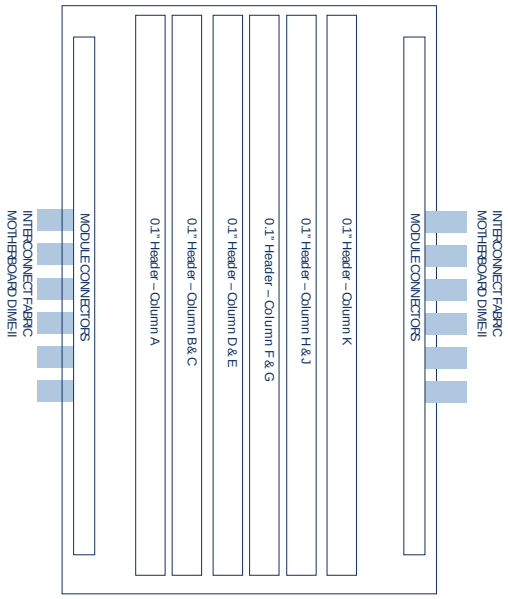
Quality

- Manufactured to IPC610 Class III (standard options)
- Designed and supplied to ISO9001:2000 certification

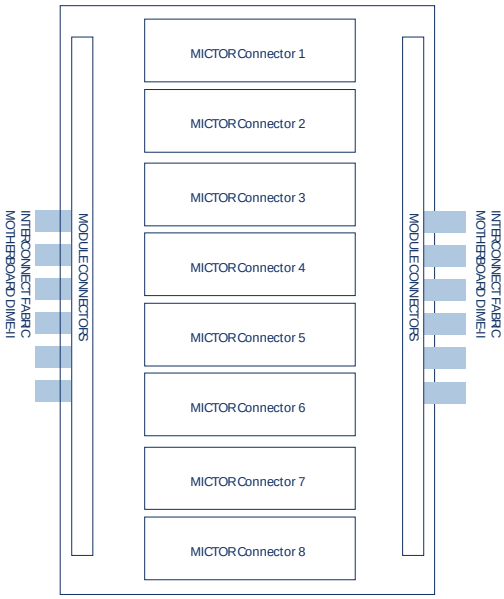
Environmental

- Cooling: Air convection
- Operating temperature: 0℃ to 50℃
- Storage temperature: -20℃ to 80℃
- Relative humidity: 10 to 95% (non-condensing)

Functional diagrams



All DIME-II buses are bi-directional. Where a bus name implies a direction in/out, this is just a conceptual name and the bus can be used in either direction. Single-ended LVTTL and Differential LVDS signalling are supported.



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Ordering and deliverables

Deliverables

- BenTEST-H or BenTEST-M module
- Software and documentation CD
- 30 days product maintenance (technical support, support lounge access)

Ordering

- Contact Nallatech for lead-time and pricing information.
- Refer to the DIME-II Product Ordering Guide for product order codes

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Fax: +44 (0)1236 789599

Technical specifications (e.g. FPGA type, size, external memory capacity etc.) can be modified to meet the exact needs of commercial customer applications as off-the-shelf product available to the general market.

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