

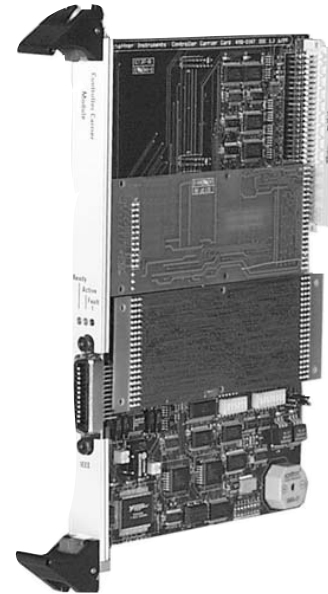
Digital Controller

- Architecture communicates with up to 128 Loads via CAN bus
- Controls all test system resources over a single address
- Ideal for computing large algorithms and processing large amounts of data
- 128k SRAM Memory

Designed by Intepro engineers to meet the high performance levels achievable with Intepro 9000, this module is the main controller for the new Intepro 9000 system architecture. One controller is needed in each test system. It can control up to 128 loads over the internal CAN bus, as well as all other Intepro 9000 and TGA modules in the system. The card is capable of controlling all test system resources over a single IEEE address.

Main features of the Digital Controller Module include:

- ? 5 way IEEE address selector switch
- ? 8 way CAN address selector switch
- ? Buzzer for start/stop test notification
- ? M-Module compliant plug-in slots
- ? H8 Controller Card
- ? LED Bank for internal diagnostics
- ? CAN Controller and Transceiver
- ? 1k Serial EEPROM for storing date, serial number, version number and test points



Digital Controller Module

The Controller consists of a motherboard and up to three daughter cards. One daughter card contains the H8 controller card, the two remaining daughter card slots are M-Module compliant providing scope for additional functionality.

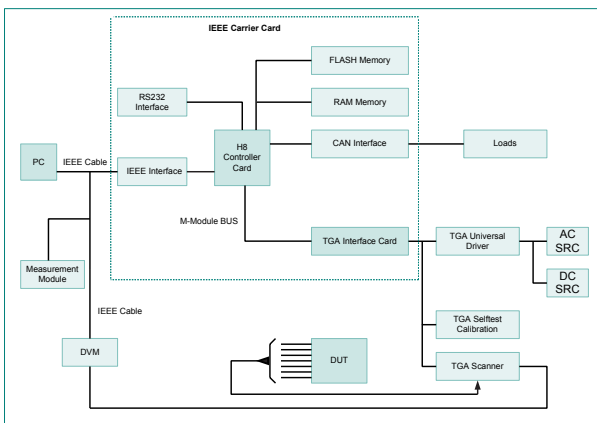
H8 Card

The H8 card is the central control source for the Intepro 9000 system. This micro controller is controlled from the PC via the IEEE bus through a high speed IEEE Interface on the Carrier Card. An extra control pin is available to interface with additional external logic, if necessary.

The H8 Card has an SRAM of 128k x 16 and also, a FLASH program memory of 128k x 16.

TGA Interface Card

The TGA Interface card is fully M-Module compliant and is attachable to the Intepro 9000 PC System Controller. The TGA card has 8 output address lines which means that up to 255 TGA cards can be addressed. Some of these TGA cards include the Universal Driver, High Frequency Scanner card and a variety of Load cards. The Universal Driver for example, can control up to 3 AC sources and 4 DC sources via the TGA Interface bus.



Digital Controller Block Diagram

Technical Specifications

Digital Controller Carrier Card

Max Current:	600mA
Input Voltages:	12V, +/-15V BUS, +5V
Additional RAM:	128k x 16
Memory:	Flash 128k x 16 for storing configuration information, 1k serial EEPROM for storing date serial no. version no. and test points
Operation Temperature:	5°C to 40°C
Storage Temperature:	5°C to 70°C
Humidity:	20% to 80% RH (non condensing)
Dimensions:	261mm height x 20mm width
TX/RX Latches:	16 input lines (TTL compatible) 6 output lines (TTL compatible) 4chip (TTL compatible)
Communications Interface:	IEEE, CAN

H8 Carrier Card

Maximum Voltage (Vcc):	5 V
Maximum Current (Icc):	330-350mA

TGA Interface Card

Driver Output Current:	±100mA
Driver Output Voltage:	4.75V to 24V
Max Clock frequency:	1MHz (limited by H11L1 optocoupler)
Target Operational Speed:	500kHz

Safety	Meets the safety requirements laid down in the following standard: IEC 1010 If the green LED is not illuminated this indicates, no power, loss of mains or mains fault.
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Options

RS232	This optional feature will require the fitting of an additional M-Module card
Additional RAM	512k x 16, for expansion selectable by 4-way DIL switch mounted on H8 module

Ordering Information

Part number	714-0000
Description	Intepro 9000 Digital Controller DCM 9010



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