

FEATURES

- *Ethernet port.*
- *Eight serial ports, five RS-232 and three RS232/422 (selectable).*
- *Twelve discrete control bits, eight outputs and four selectable I/O.*
- *Five on-board status LED indicators.*
- *Eight on-board BIT LED indicators.*
- *Bus I/O used for interface with daughter boards or OEM product.*
- *On-board programmable selector switches including: Four 16 position HEX switches, one 4 station DIP switch and one 8 station DIP switch*
- *Four on-board programmable push buttons.*
- *Two power converters and two linear regulators provide 12, 3.3, 2.5 and 1.2VDC derived from single 24VDC input.*
- *Two MB flash memory and 1MB SRAM.*



DESCRIPTION

The Model 2110, System Controller, provides control of a variety of devices via discrete, serial RS-232 /422 Parallel and Ethernet ports. The board is fully programmable and the numerous ports allow adaptation to a wide range of control applications. The 2110 also accepts several daughter boards which further enhance the functionality.

A number of programmed functions are available for a variety of applications. In addition, the unit's versatility makes it readily adaptable to accommodate specific user requirements. Daughter boards are available that add Video Insertion, Video Switching, a GPS Receiver and IRIG B time code Decoding and Generation as well as additional porting including SDLC.

Model 2110 System Controller

SPECIFICATIONS

Processor	Altera NIOS II Processor with MicroC/OS, 50MHz clock
Ethernet Port	10/100, UDP/IP, Up to four clients.
RS-232 Ports	Five, 2400 to 115K baud RS-232C
RS-232/422 Ports	Three, may be RS-232 or RS-422 jumper selected. 2400 to 115K baud
Discrete Interface	
Outputs Sinking	Four, 24VDC, max at 1A
Outputs Sourcing	Four, 12VDC, 1A total for all four.
Input/Output	Four, TTL or contact closure inputs (10K pullup to 5VDC) On board DIP switches in parallel, I/O interface may be used as an output to monitor switch status remotely.
Flash Ram	Two Megabyte
SRAM	One Megabyte
Indicators	13ea LEDs: 1ea Green Power Four Ethernet status indicators: 1ea Green Active, 1ea Green E100, 1ea Amber Selected (by network), 1ea Yellow Link (network activity), 8 blue Built-In-Test Status/Progress.
Programmable Switches	4ea 16 position HEX coded rotary switches, 1ea 4 station DIP, 1ea 8 station DIP, 4ea push buttons.
Daughter Board Interface	40 pin header, includes 20 signal lines plus 12 and 3.3 VDC power
Power Supplies	On board power supplies are, 24 to 12VDC Converter, 12 to 3.3VDC Converter, 3.3 to 2.5 Linear Regulator and 3.3 to 1.2 VDC Linear Regulator.
Input Power	24VDC \pm 15%
Temperature	
Operating	-40° to 70°C
Nonoperating	-40° to 85°C
Humidity	85% non-condensing
Package	
Size:	Single PCA, 6.5-inches by 7-inches, 1 inch high
Weight:	11 oz.

