



SPCL-0003-X21

The SPCL-0003-X21 Computer board in 3.9" x 6.3" format for the NMI trade mark series. Provided with Motorola F68HC11- based CPU board and 4-channel 12-bit A/D can be upgrade to 8-channel and 4-channel 12-bit D/A

FEATURES

- . F68HC11 V3.5 CPU
- . Max-FORTH built-in programming language
- . 231 predefined words in the language
- . 3 parallel ports
- . 1 Asynchronous Serial Channel. RS-232, 422, or 485
- . 1 Synchronous Serial Channel, TTL
- . 8-channel, 8-bit A/D
- . 4-channel, 12-bit A/D-4096 full scale counts - can be upgrade to 8-channel
- . Differential input protected up to 70Vp-p
- . Unipolar/Bipolar selectable inputs
- . Input ranges from +/-5mV to +/-10V full scale
- . AD574 converter chip
- . Optional HI-549 Multiplexers 1,4 or 8 channel inputs
- . (4) AD7248 4-channel 12-bit D/A
- . AD625 Instrument Amplifier
- . Gain factor of 1 to 1024, set by resistor value
- . Trim pots for span/Zero calibration settings
- . Ext. +/-12 to 15V "analog" power supply accepted
- . 8-bit counter
- . 16-bit timer
- . 3 input captures
- . 5 output compares
- . 1/2K internal EEPROM
- . 64K address space
- . 8K/8 external SRAM can be upgrade for more
- . RS232 Cable with reset push button switch
- . 34-pin JEDSTACK

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Vertical Stacking Connector (VSC)

- Bridge Rectifier and Regulator
- 8K/8 BASIC monitor Eprom
- 8K/8 BUFFALO monitor Eprom
- Header connector and shunt for ease modification

The SPCL-0003-X21 is a complete system and ready to run dedicated applications. Simply plug in power and attach a host RS-232 port, and begin programming. Then the user program can be added to its internal **EEPROM**, or its external EEPROM, EPROM or battery backed RAM.

The SPCL-0003-X21 Special makes a very cost effective solution as a development system for the 68HC11, particular when small size, CMOS low power, and ease of development are required. Few single board computer offers so many features in such a small space. High level Language support offers resident FORTH and, optionally, BASIC and Assembly Language. FORTH and C cross compilers and cross Assembly also available. The SPCL-0003-X21 makes a very cost effective solution. No other computer board offers so many features in such a small space.

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