

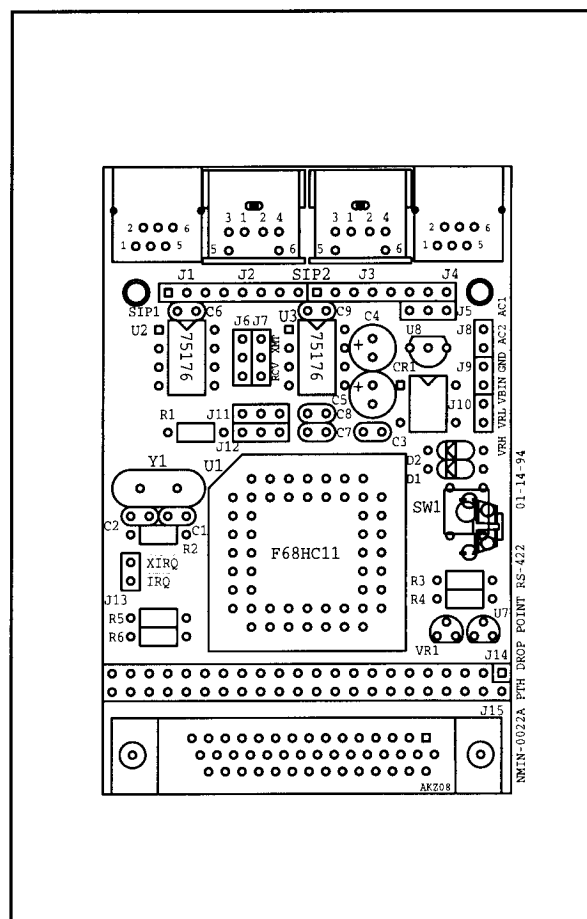
MAXDDE PACKAGE FOR WINDOWS

The Multidrop-Point, NMIN-0022A, is a 68HC11-based CPU board in 2.2" x 3.4" format. It offers all the features of the 68HC11FN installed in single-chip mode, with power supply features and RS-422/485 conversion.

□□□□□□□□

- 68HC11FN (F68HC11E9FN V3.5 Standard)
- 5 parallel ports
- 1 Asynchronous Serial Channel
- 1 Synchronous Serial Channel
- 8-channel, 8-bit A/D
- 8-bit counter
- 16-bit timer
- 3 or 4 input captures
- 5 or 4 output compares
- 1/2K EEPROM
- 1/2K RAM (E9 CPU)
- RS-422/485 conversion of serial-in/serial-out
- MiniDIN-6 and RJ11 RS-422/485 connector
- VM08 full bridge rectifier
- LM2936 5V Regulator
- Optimal LM385-2.5 Voltage Reference for A/D
- Accept 7-28VAC or 6.6-40 VDC @ ~10mA

The Multidrop-Points are complete single-ship systems, particularly well suited to operate as an interactive, low-cost, remote, data collection or control points. Their serial channel is designed to work on RS-422, modified for multidrop use. Thereby, a host can operate a network of these single board computers from a single serial port. RS-422 allows up to 32 units to be multidropped, and total cable lengths up to 4000 feet (not possible with RS-232). More units and distance are possible with repeaters. Several CPU's with interactive languages can be used. When equipped with an Easy-A protocol-compliant CPU, MAXDDE software (available separately) can directly "hook" data from the boards into Windows programs.



MAXDDE WINDOWS INTERFACE PACKAGE

Any of the 68HC11FN chips can be used in the board, as long as the user takes responsibility for operation of a suitable multidrop protocol. 68HC11A0's through E9's, including E2's and 711E9's, can be used. This allows many language development options, including Assembly, C, Max-FORTH™, STAMAX™, etc.

A multidrop protocol is needed to operate more than one processor on a communications line. The Easy-A protocol was designed for this purpose. (Extensive documentation of the Easy-A protocol is available from New Micros, Inc., in Applications Note: AN0002) Easy-A implements the protocol needed to operate in multidrop Host-Slave configuration. Easy-A protocol-compliant CPU's are available with STAMAX™, and Max-FORTH™ by adding extensions, interactive languages.

When equipped with an Easy-A compliant interactive language, the NMIN-0022A can interactively develop code, or, accept automatically downloaded program code from a RS-422 based personal computer.

