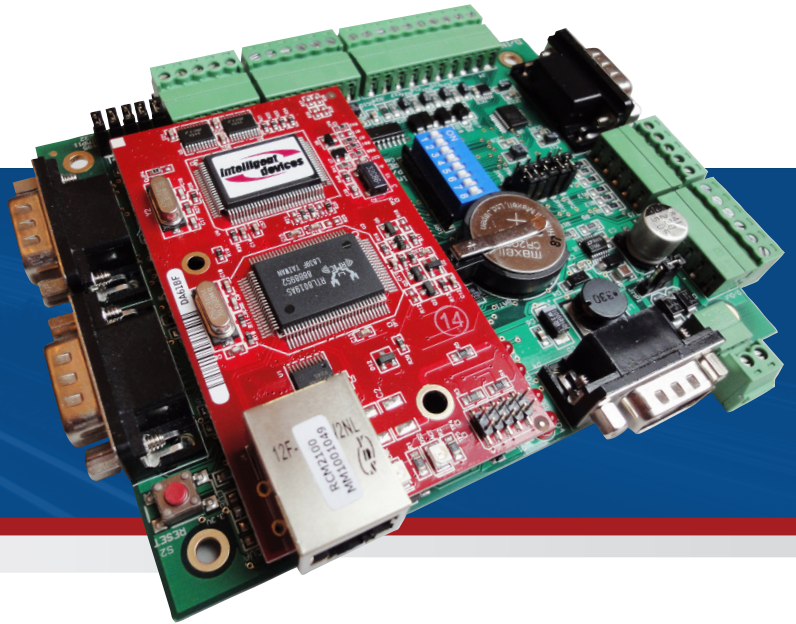


IDI 1320 NTCIP Field Device Controller



The IDI 1320 is one of a family of low-cost solutions to the implementation of field devices that require NTCIP conformant communication. The small size and powerful performance of the IDI 1320 controller make it the perfect engine to control signs, traffic count systems, weather stations, cameras or any custom application where NTCIP communication is required.

Four serial ports are provided (2 ports are jumper-selectable to be RS232 or RS485), as well as digital inputs and outputs and analog inputs. The module is provided with NTCIP communications built in, so the only custom development required is the interfacing of the module to the applicable field sensor or output device. An Ethernet port provides a powerful optional connection for high speed communication, and an on board temperature sensor is provided as standard.

The IDI 1320 incorporates a “flash disk” (8 MB standard) for storage of any logging data or other information. This makes it a perfect choice for applications where on board data storage is required.

IDI 1320 Features:

- > Low cost NTCIP solution
- > Small size, powerful performance
- > Four serial ports are provided
- > Watchdog supervision is standard
- > Includes a time clock module
- > Battery backup maintains system memory and real time clock
- > Ethernet port included
- > 8 MB Flash disk for on board data storage



HARDWARE CONFIGURATION

Module Size	5.7" x 4.8" x .6", 144mm x 122mm x 18mm (Standard)
(overall, including connectors)	5.7" x 4.8" x .9, 144mm x 122mm x 24mm (Ethernet)
Attachment	Qty. 4, 0.156" (4mm) holes
Operating Temp	-40°C to +74°C (-40°F to +165°F)
Humidity	5-95% non-condensing
Power Requirement	8-30 V AC or DC - Less than 100mA
Digital I/O	8 inputs , 4 outputs
Analog Inputs	4 Inputs - 12 bit accuracy
Processor Speed	22.1 MHz
SRAM	512 kB (standard)
Flash	512 kB (standard)
	8 MB serial (data storage) Bigger memory sizes optional.
Serial Ports	4 Total (2 - RS232 Full Hardware Flow Control, 2 - RS232 Full Hardware Flow Control or 4 Wire RS485)
Watchdog Supervisor	Yes
Time/date Clock	Yes
Battery Back up	Yes
Temperature Sensor	Yes
LED	4 - Heartbeat, Rx, Tx, Diagnostics
Switches	Reset, 8 position DIP
Ethernet (Optional)	10 BaseT with 2 diagnostic LED's

SOFTWARE SPECIFICATION

PROTOCOL STACKS SUPPORTED

Direct Connect (RS-232):	Data Objects > SNMP > Null > PMPP > RS-232 > Twisted Pair
Direct Connect (RS-485):	Data Objects > SNMP > Null > PMPP > RS-485 > Twisted Pair
Dial Up :	Data Objects > SNMP > Null > PMPP > V Series Modem > Telephone Co
	Data Objects > SNMP > UDP/IP > PPP > V Series Modem > Telephone Co
Ethernet (optional):	Data Objects > SNMP > TCP/IP > Ethernet
	Data Objects > SNMP > UDP/IP > Ethernet

STANDARD MASTER OID TABLES

1201 - Global Objects	1203 - Dynamic Message Signs
1204 - Environmental Sensor Systems	1205 - CCTV Camera Control
1209 - Transportation System Sensors	Custom Conformance Group Configuration available

PROGRAMMING

Custom device drivers programmed in "C", running as a separate task in a real time multi-tasking operating system.

OPTIONS

Training, Application Assistance, Telephone Support, Upgrades and Enhancements

ORDERING INFORMATION

IDI 1320 - Base Controller
IDI 1321 - Base Controller with optional 10 Base-T Ethernet