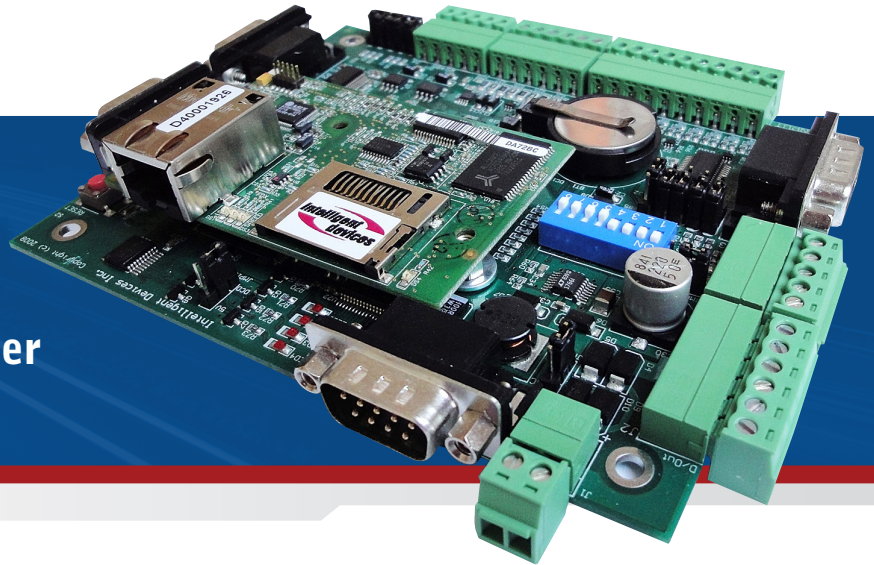


IDI 1931 NTCIP Field Device Controller



The IDI 1931 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 1931 controller make it the perfect engine to control color signs, traffic count systems, weather stations, cameras or any custom application where NTCIP communication is required.

The IDI 1931 brings a new level of performance to the Intelligent Devices family of NTCIP Field Device Controllers. The controller maintains all the features and small size of the 1321 controller, with the addition of a more powerful processor, more memory, and additional Flash memory options.

IDI 1931 Features:

- > Pin compatible with the IDI 1321 controller.
- > New 59 MHz processor
- > 1 MB of RAM , 512 kB of battery-backed RAM
- > 10/100Base-T Ethernet port w/ RJ-45 connector
- > 16 MB of internal Flash memory for data storage
- > Removable miniSD card slot, (up to 1 GB)
- > Four serial ports, two of which are jumper-selectable for RS-485
- > Eight digital inputs, four analog inputs, and four digital outputs



HARDWARE SPECIFICATION

Module Size <i>(overall, including connectors)</i>	5.7" x 4.8" x .9", 144mm x 122mm x 24mm
Attachment	Qty 4 x 0.156" (4mm) holes
Operating Temp	-40°C to +74°C (-40°F to +165°F)
Humidity	5-95% non-condensing
Power Requirement	9-30V AC or DC; 120mA @ 12VDC
Digital I/O	8 inputs, 4 outputs - 100 mA max.
Analog Inputs	4 inputs, 12 bit accuracy; 4.8VDC full-scale, 24k input impedance
Processor Speed	59 MHz
Data SRAM (battery backed)	512kB
Fast Program Execution SRAM	1MB
Serial Flash memory (code)	2MB
Flash memory (data)	16 MB (cannot be used with miniSD card)
Removable miniSD card slot	Supports up to 1 GB of FLASH memory (not included)
Serial Ports	4 Total: 2 - RS232 Full Hardware Flow Control, 2 - RS232 Full Hardware Flow Control or 4 wire RS485, jumper-selectable
Watchdog Supervisor	Yes
Time/date Clock	Yes
Battery Back up	Yes
Temperature Sensor	Yes
LED	4
Switches	Reset pushbutton and 8-position DIP
Ethernet	10/100 BaseT with three LED's; LINK/ACT; FDX/COL; SPEED

SOFTWARE SPECIFICATION

PROTOCOL STACKS SUPPORTED

Direct Connect (RS-232):	Data Objects > SNMP > Null > PMPP > RS-232 > DB9M
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
Ethernet :	Data Objects > SNMP > TCP/IP or UDP/IP > Ethernet > RJ-45
PMPP over Ethernet:	Data Objects > SNMP > PMPP > TCP/IP or UDP/IP > Ethernet > RJ-45
Wireless:	Data Objects > SNMP > TCP/IP or UDP/IP > Ethernet > RJ-45 > Cellular Wireless

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

NTCIP-compliant firmware is programmed in a real-time, multi-tasking operating system. Custom device drivers are available for multiple field devices, including signs, cameras, ramp meter systems, weather monitoring systems, traffic sensors, parking monitoring systems and others.

OPTIONS

Training, Application Assistance, Telephone Support, Upgrades and Enhancements

ORDERING INFORMATION

IDI 1931 - Base Controller