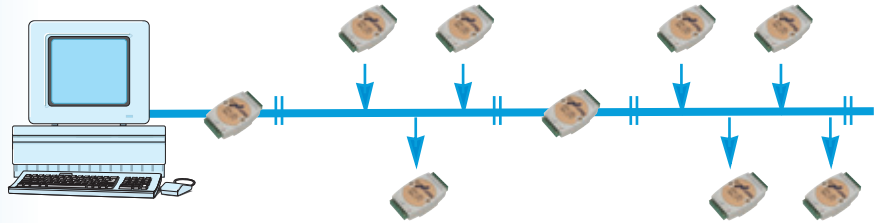


Remote I/O Modules

Overview

ADLINK Intelligent Remote Data Acquisition & Control Modules (NuDAM) are designed for data acquisition systems based on PCs and other processors based equipment with standard serial I/O ports (RS-232 or RS-485 with auto-direction control). The modules convert I/O signals to engineering units and transmit/receive, in ASCII format, to/from any host computer with an RS-232 or RS-485 port.

The NuDAM modules are the key components in flexible and cost effective remote data acquisition and control systems.



ND-8511(D)

Serial to Ethernet Data Converter

- 48 MHz, 186-Based Controller
- Auto sensing 10/100 Base-T Ethernet
- High speed serial port (up to 230 kbps) with hardware and modem flow controls
- 3 digital I/O pins (software selectable, shared with serial port signal)
- Compact size for easy integration
- TCP/IP, UDP, DHCP, SNMP, Telnet, ARP, ICMP, and TFTP Protocol Support
- E-Mail function (send only)
- Support for flow & modem control signals



ND-6510

RS-422/RS-485 Repeater

- Input
 - RS-422 (4-wire, full-duplex)
 - RS-485 (2-wire, half-duplex) protocol
- Output
 - RS-422 (4-wire, full-duplex)
 - RS-485 (2-wire, half-duplex) protocol
- Speed: 115.2 k, 57.6 k, 38.4 k, 19.2 k, 9600, 4800, 2400, 1200
- Auto baud rate and data format adjustment
- Isolation Voltage: 2500 V_{RMS}



ND-6520

RS-232 to RS-422/485 Converter

- Protocol
 - RS-422 (4-wire, full-duplex)
 - RS-485 (2-wire, half-duplex) protocol
- Speed: 115.2 k, 38.4 k, 19.2 k, 9600, 4800, 2400, 1200
- Auto baud rate and data format adjustment
- Isolation Voltage: 2500 V_{RMS}
- Repeater request: Over 128 modules or distance over 4000 feet



ND-6530

USB to RS-422/RS-485 Converter

- Protocol (DIP switch selectable)
 - RS-232 (5-wire: RXD, TXD, RTS, CTS, GND)
 - RS-422 (4-wire: TX+, TX-, RX+, RX-)
 - RS-485 (2-wire: Data+, Data-)
- Speed: 1200~115.2 kbps
- Isolation Voltage: 2500 V_{RMS}
- Fully USB compliant
- Repeater request: Over 128 modules or distance over 4000 feet



ND-6531

Configurable Communication Controller

- Protocol (DIP switch selectable)
 - RS-232 (5-wire: RXD, TXD, RTS, CTS, GND)
 - RS-422 (4-wire: TX+, TX-, RX+, RX-)
 - RS-485 (2-wire: Data+, Data-)
- Speed: 1200 ~ 115200 bps (RS-232 and RS-422/485 can be set to different baud rate)
- Convert RS-422/485 to RS-232 with configurable address



ND-6013

3-CH RTD Input Module

- Channels: 3
- Input Type: Pt-100, Ni-100 or Ni-120 RTD
- Isolation Voltage: 2500 V_{RMS}
- Sampling Rate: 10 samples/sec
- Input Wiring: 2, 3 or 4 wires



ND-6017

8-CH Analog Input Module

- Channels: 6 Differential & 2 Single-ended
- Input Type: mV, V and mA
- Input Range:
 - ±150 mV, ±500 mV, ±1 V, ±5 V, ±10 V
- Current Range: ±20 mA
- Isolation Voltage: 2500 V_{RMS}



ND-6018

8-CH Thermocouple Input Module

- Channels: 6 Differential & 2 Single-ended
- Input Type: Thermocouple, mV, V and mA
- Thermocouple Type: J, K, T, E, R, S, B, N, C
- Voltage Range:
 - ±15 mV, ±50 mV, ±100 mV, ±500 mV, ±1 V, ±2.5 V
- Current Range: ±20 mA
- Isolation Voltage: 2500 V_{RMS}



ND-6021

Analog Output Module

- Voltage Output: 0-10 V
- Current Output: 0-20 mA, 4-20 mA
- Output Isolation: 5000 V_{RMS}
- Resolution: 12-bit resolution
- Accuracy:
 - ±0.1% of FSR (current)
 - ±0.2% of FSR (voltage)



ND-6024

4-CH Analog Output Module

- Channels: 4
- Voltage Output: -10 V to +10 V
- Resolution: 12-bit resolution
- Accuracy: ±1/2 LSB
- 7 TTL digital input



ND-6050

Digital I/O Module

- Interface: RS-485
- 7 TTL digital inputs
- 8 open collector DO
- Programmable input polarity



ND-6052

Isolated Digital Input Module

- Channels: 8 DI
 - 6 fully independent isolated
 - 2 isolated with common ground
- Isolated Voltage: 5000 V_{RMS}
- Programmable input polarity



ND-6053

16-CH Digital Input Module

- Channels: 16 DI
- Dry Contact
 - Logical level 0: close to GND
 - Logical level 1: open
 - Effective distance: 500 m(max)
- Wet Contact
 - Logical level 0: 2 V (max)
 - Logical level 2: 4 V~30 V
- Programmable input polarity



ND-6054

Isolated Digital Output Module

- Channels: 15 bits digital input with 24 V external common power
- Isolation Voltage: 5000 V_{RMS}
- Switching Level
 - Low (0): 1 V (max.)
 - High (1): 3.5 V~24 V
- Programmable input polarity



ND-6056

Isolated Digital Output Module

- Channels: 15 bits digital open collector output with common ground
- Isolation Voltage: 5000 V_{RMS}
- Switching Level: with 24 V common power
- Programmable input polarity



ND-6058

28-CH PPI Module

- 8255 programmable peripheral interface mode 0 emulation
- Input Signal
 - Logical level 0: -0.5~0.8 V
 - Logical level 1: 2.0~5.25 V
- Internal Pull-Up Resistor: 10 k Ω
- Maximum Current: 0.5 mA
- Output Signal
 - Logical level 0: 0.5 V max.
 - Logical level 1: 2.4 V min.



ND-6060

Relay Output & Digital Input Module

- 4-CH relay outputs
- Output Type: 2 form C and 2 form A
- Contact Rating
 - AC: 0.6 A / 125 V or 0.3 A / 250 V
 - DC: 2 A / 30 V or 0.6 A / 250 V
- Common External Voltage: 24 V or GND
- Input Type: switch or transistor



ND-6063

8-CH Relay Output Module

- Output Type: 8 Form A
- Contact Rating:
 - AC: 0.5 A / 125 V
 - DC: 1 A / 30 V or 0.3 A / 110 V
- ON/OFF Interval Time: 3 ms
- Internal Insulation Resistance: 1000 M Ω @500 V_{DC}



ND-6067

8-CH AC Relay Output Module

- Interface: RS-485, 2 wires
- Output Type: 8 form A
- Contact Rating:
 - AC 3 A / 250 V
 - DC 3 A / 30 V
- ON/OFF time interval: 6 ms/3 ms
- Insulation Resistance: 1000 M Ω minimum (at 500 V_{DC})



ND-6080

2-CH Counter/Frequency Input Module

- Channels: 2 independent 32-bit counter
- Input Frequency: 100 kHz max.
- Isolation Voltage: 5000 V_{RMS}
- Input Pulse Width: > 5 μ s sec
- Max. Count: 4294967295 (32-bit)
- Programmable Digital Noise Filter: 4 μ s to 1.02 ms
- Alarm: alarm comparator on each counter



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