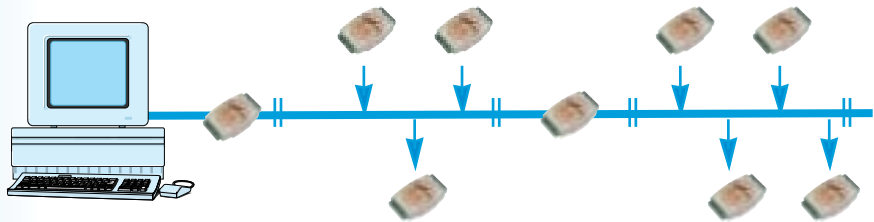


# Remote I/O Modules

## 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.



### NDP-243, NDP-243U

#### Panel Mounting Power Supply

- Input Voltage
  - NDP243: 85-132 V<sub>AC</sub> or 170-264 V<sub>AC</sub>, switchable
  - NDP-243U: 90-264 V<sub>AC</sub>
- Input Frequency: 47-63 Hz
- Input Current: 1.4 A (max.)
- Short Protection
- Output Voltage
  - NDP-243: +24 V<sub>DC</sub> ±10%
  - NDP-243U: +24 V<sub>DC</sub> 1 A, +12 V<sub>DC</sub> 1 A, +5 V<sub>DC</sub> 3 A
- Output Current: 3 A (max.)
- Overload Protection

NDP-243



NDP-243U



### 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 set to different baud rate)
- Convert RS-422/485 to RS-232 with configurable address



### 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: 115.2k, 57.6k, 38.4k, 19.2k, 9600, 4800, 2400, 1200, 600, 300
- Auto baud rate and data format adjustment
- Isolation Voltage: 2500 V<sub>RMS</sub>



### ND-6013

#### 3-CH RTD Input Module

- Channels: 3
- Input Type: Pt-100, Ni-100 or Ni-120 RTD
- Isolation Voltage: 2500 V<sub>RMS</sub>
- Sampling Rate: 10 Samples / sec
- Input Wiring: 2, 3 or 4 wires



### ND-6520

#### RS-232 to RS-422/485 Converter

- Protocol
  - RS-422 (4-wire, full-duplex)
  - RS-485 (2-wire, half-duplex) protocol
- Speed: 115.2k, 38.4k, 19.2k, 9600, 4800, 2400, 1200, 600, 300
- Auto baud rate and data format adjustment
- Isolation Voltage: 2500 V<sub>RMS</sub>
- Repeater request: Over 128 modules or distance over 4000 feet



### 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<sub>RMS</sub>



### 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: 300~115.2k bps
- Isolation Voltage: 2500 V<sub>RMS</sub>
- Fully USB compliant
- Repeater request: Over 128 modules or distance over 4000 feet



### 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<sub>RMS</sub>

