Z-Card

Part Number: AFD-2000-180

Description
The Z-Card is a microprocessor card that is easily configured to meet a project's unique input/output requirements. Z-Cards can be configured as an 80-point input card for switches or as an 80-point output card to drive LEDs or small relays. Additionally, the card can be configured with a 40-40 split between input and output points.

To expand the input/output capability of the Z-card, multiple 80-point I/O boards can be used with the Z-card. Expansion connectors connect the ADI 80-point I/O boards to the Z-card, which allows the card to drive the additional I/O devices.

There are two serial ports on each Z-card. RS-232, RS422, and RS485 are all serial interface standards supported on the card. The Zilog Z-180 microprocessor can be fully programmed by Automation Displays, Inc with custom firmware.

Features
- **Power**: 5 VDC or 24 VDC
- **Serial Ports**: 2-available
- **Processor**: Zilog Z-180
- **Max. I/O Per Board**: 80 points
- **Expansion**: Uses ADI 80-point I/O board for additional I/O capacity
- **UL Listing**: UL 864 UUKL Component
Z-Net Interface

Description
The Z-Net Connection is a cost-effective way to communicate with multiple control graphics using only one PLC serial port. The Z-Net interface can handle up to eight different graphic panels through a single PLC serial port. Each of these graphic panels can have a maximum of 400 LEDs and 320 switches.

Standard interface protocols are available as well as custom protocols. The Z-Net is designed with a simple communication format that makes the indicators easy to read and the switches easy to command. Combining this technology with an ADI graphic panel creates an innovative and cost effective solution to the control needs of a large facility.

Features
System capacity: 8 nodes
Maximum capacity: 3200 LEDs and 2560 switches
Node capacity: 400 LEDs and 320 switches
Typical protocols: Omron
Modicon
GE Fanuc
80 Point I/O Card

Part Number: AFD-8171-80

Description
The ADI 80-point I/O card efficiently controls microprocessor managed system input and output requirements. When the card is connected to the output port on the ADI microprocessor, the 80-point I/O card can drive up to 80 LEDs or small relays. Connecting the AFD-8171-80 card to the input port on the ADI microprocessor enables the card to scan up to 80 switches or dry contact inputs. Data transfers to the output registers as an 80-bit string in a one step process.

Specifications
- Output circuits: Rated at 60mA maximum output
- Board logic power: 5 VDC at 75mA maximum
- Connectors -logic source, power, shift registers (data, clock, and strobe): One 6/12 solder eyelet PCB edge connector
- Connectors -input/output: Two 22/44 solder eyelet PCB edge connectors with 40 points each
- Connector tabs: Non-corrosive tabs
- Mounting options: Screw mounting to the subplate or ADI card cage
- LED resistors: Mounted externally

I/O Card Dimensions and Schematic