

Networking solutions made simple!

10/100 Meg Fast Ethernet Communications

DirectLOGIC DL05/06



The ECOM modules provide a high speed Ethernet connection to the DL05, DL06, DL205 and DL405 CPUs. They provide a very fast, general purpose interface port that can be used in a variety of ways:
 ECOMs can also be used for PLC programming and debugging with our DirectSOFT32 software package or to provide a high speed connection for HMI software. ECOMs can be used for high speed peer-to-peer connections between PLCs. You're no longer limited to Master / Slave networking like a serial network. Each ECOM can be a master and a slave to other ECOMs simultaneously.
 All of the ECOM100 versions also support Modbus/TCP in both Master and Slave configurations. ECOMs can also be configured to send PLC data to a PC. We refer to this as 'report-by-exception'. ECOMs can be accessed across the Internet. It takes a little work because of the inherent security built into Internet access hardware. And the coolest thing about the ECOMs is their ability to perform all of the above roles simultaneously. The other communication modules (D2-DCM, D4-DCM, etc.), can be either a mastering device or a slave device. During their installation, you designate their role by the use of dipswitches or some other configuration method, and this role cannot be changed without powering down and changing some switches. The ECOM simply examines the packets it receives and determines what action to perform based on the packet type and data, changing roles as needed, on the fly. ECOM100's supports master slave communication, 10/100Mb auto-detect, TCP/IP, UDP/IP, IPX, and MODBUS TCP/IP application layer protocol.

DirectLOGIC DL205



Niplex-Cti 505

Series 505 Fast Ethernet TCP/IP Adaptor Module The 2572-A Fast Ethernet TCP/IP Adaptor is a 10/100Mbit network interface module that provides up to 2x the speed of the 2572. It offers compatibility with the model 2572 and 505-CP2572, and provides connectivity to networks using IEEE 802.3, Ethernet II and Transmission Control/Internet Protocol (TCP/IP) standards. The V2.0 operating firmware for the 2572-A Fast Ethernet Module. Enhancements in this release include support for Ethernet/IP Server - allows communication between 505 and ControlLogix over Ethernet support for IP Multicast - provides a "one to many" data exchange which allows a 505 system to send data to many other 505's using a single transaction. Automation Direct offers a complete range of I/O, analog modules, power supplies, racks and soon to be released CPU's for the series 505.

New Product - Communications

NIPLEX-Phoenix have announced the release of their new Fault Tolerant, Redundant, Self-Healing, **Fiber Optic Modules for 10/100 Mbps FAST Ethernet** (ALL Protocols... TCP/IP, IP, CP, etc). Optical Communication Modules are available in modular Standalone, Industrial Enclosures for DIN-Rail or Panelmount Installation...special features such as priority queuing and ultra-high speed recovery. UL Class I, Division 2 Rating, with up to 96 Kilometers Apart Single Mode Operation. Modems are available for Automation Direct's DirectLogic PLCs and most other Programmable Controllers (PLCs) and Distributed Control Systems (DCS). The modem models include 1756 ControlLogix Plug-In Modules, 1746 SLC Plug-In Modules for ROCKWELL AUTOMATION Networks. They provides Auto-Negotiation and Auto-Crossover for Plug-and-Play Connectivity, Supports 850, 1300, and 1550 nm Wavelengths and is compatible with both Singlemode and Multimode Fiber, and with Industrial Fiber Optic Cable

Our EBC (Ethernet Base Controller) interface modules provide a low-cost, high performance link to the I/O in your control system. H2-EBC100 and T1H-EBC100 that support both 10Base-T and 100Base-T UTP networks. You can use the EBCs as the I/O interface for PC-based control software such as Entivity's Think'nDo products, and Visual Logic Controller, and Wonderware's InControl. You can also use them with an OPC server like the KEPDirect EBC I/O Server from AutomationDirect. The EBCs can be used with our H2-ERM100 and H4-ERM100 (Ethernet Remote Master) as the slave interface modules in remote I/O systems for the WinPLCs, the DL205 and DL405 CPUs. IPX, UDP/IP, Modbus/TCP, DHCP, HTML



Serial and Ethernet radio modems
 Economical radio modems for industrial control, AUTOMATIONDIRECT has chosen Cirronet as a partner. Cirronet has well over a decade of success in developing innovative wireless data networking and communications products for industrial, OEM and Internet access markets. Employing proprietary Frequency Hopping Spread Spectrum (FHSS) radio transmission technology, Cirronet's products offer reliable, long range performance and unparalleled immunity against jamming and interference. The new CR series serial and Ethernet radios were developed specifically for the industrial automation marketplace.

- Transmission at 2.4 GHz, the only truly international unlicensed frequency band
- Reliable data throughput using Cirronet's patented FHSS technology: assures reliable performance even in high-multipath and noisy RF environments.
- Frequency Skip feature that prevents interference with/from any co-located 802.11 wireless LANs
- Long range with high speed (up to 1.23 Mbps total over-the-air bandwidth in point-to-point and multipoint applications), up to 1.5 miles (farther with high gain antenna)

Ethernet switch

Ethernet for deterministic control? You bet! At 10 or 100 Mbps, your data will spend minimum time on the wire between your I/O and controller. The E-SW05U, an Ethernet switch, automatically determines and remembers the devices connected to each port and routes messages only through the appropriate port. The E-SW05U supports all standard IEEE 802.3 Ethernet protocols, so you won't need expensive protocol or media converters to connect with standard IT products.



DirectLOGIC DL405



Terminator Field I/O

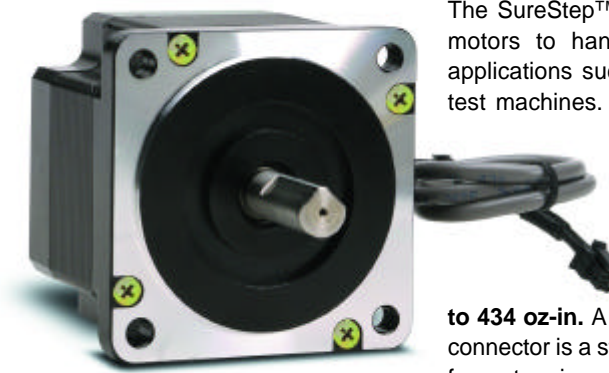
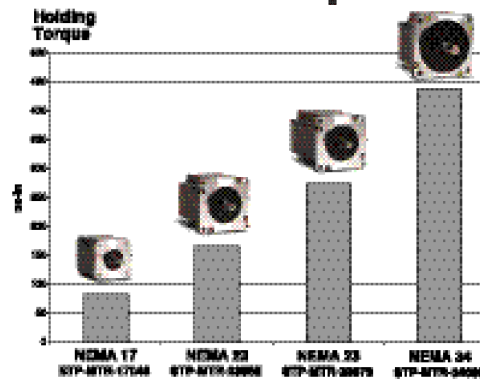


Low-cost stepping systems, plug and play...it's that easy

Introducing SureStep™

NEW!

Surestep™



Four standard motors with connectorized pigtail
 The SureStep™ stepping family has four standard motors to handle a wide range of automation applications such as woodworking, assembly, and test machines. Our square frame or "high torque" style stepping motors are the latest technology, resulting in the best torque to volume. We have **NEMA 17, 23, and 34** mounting flanges and holding torque ranges from **83 oz-in to 434 oz-in**. A 20 foot extension cable with locking connector is a standard option to interface any of the four stepping motors to the stepping drive. The extension cable can be easily cut to length if desired.

One-size-fits-all microstepping drive

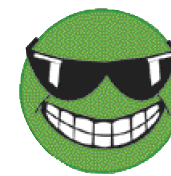


\$149

- Ultimate in simplicity
- One standard microstepping drive to operate any of four standard motors
- Onboard screw terminals for easy hook-up
- Optically-isolated inputs ready for +5 VDC logic from DirectLOGIC PLCs
- **No software** or add-on resistors required for drive configuration - **9-position dip-switch set up**
- Dipswitch used for built-in self-test, step angle selection, current level selection, and optional idle current reduction.
- Standard power supply available to operate at least two stepping systems of any size with an auxiliary +5 VDC supply to facilitate DirectLOGIC PLCs and stepping drive interfaces.

Sensors

ENCODERS & LIMIT SWITCHES



Incremental and absolute encoders

Encoders are used in all types of angle, length-measuring, and position sensing applications, including machine tooling, semiconductor positioning and multi-axis positioning. Use these encoders with our PLC high-speed counter modules for accurate position monitoring and control.

Availability: All the most commonly used encoders are in stock and available for immediate shipment. (We also offer non-stock encoders that have lead times of four to six weeks.)



Cost: Our prices are often 50% below the list prices of traditional automation suppliers. Our direct business model allows us to operate more efficiently and pass the savings on to you.
 Quality: All encoders carry a one-year warranty, and all in-stock models have a 30-day money-back guarantee.

Discrete Controls

RELAYS AND TIMERS

Full lineup of control relays

Our general purpose industrial relays are a low-cost way of adding control and isolation relays to any application.



Electromechanical relays are available in cube and card styles for a diverse range of installation requirements. Cube relays are available with standard linear or octal base connection patterns. The QM and QL series cube relays, available in 24 VDC, 120 VAC and 240 VAC coil voltages, plug into DIN-rail mountable relay sockets (one per socket). The QM series switches up to 5 amps, while the QL series can handle up to 10 amps. The RS series uses slim plug-in 24 VDC card relays to create a bank of four or six 5 amp units in DIN-rail mountable terminal modules. Many models offer push to test function.

Solid state relays available include DIN-rail and panel-mount styles. The AD series solid state relays plug into a DIN-rail mountable relay socket or can be wired with the quick-connect terminals. The SSR series are 10 and 25 A relays, integral heat sinks and finger-safe covers with no moving parts.

All relays feature LED indicators for easy troubleshooting.