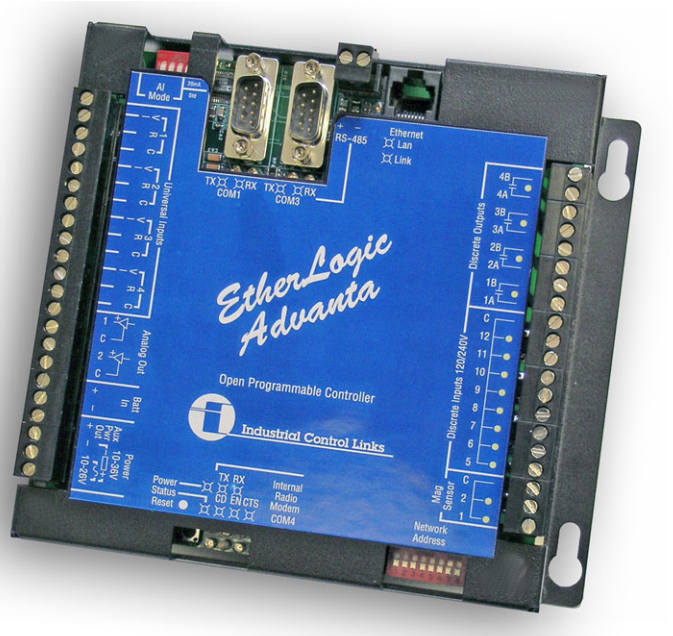
PROCESS CONTROL
REMOTE MONITORING
HVAC CONTROL
WATER & WASTEWATER
OIL & GAS

A unique "open architecture" controller that combines IEC 61131-3 programmable control, sensor conditioning, built-in Ethernet, Internet and high-speed serial and wireless communications, data logging, voice & pager alarm dialing and e-mail notification.



EtherLogic Advanta

- *High-speed Ethernet*
- *3 Serial Ports + Modem/Radio*
- *Programmable Logic*
- *16 MB Flash Disk*
- *32-bit Math and PID Control*
- *Built-in HMI/MMI*
- *Data Logging & Alarm Dialing*
- *Remote Program Updates*
- *E-mail w/file attachments*
- *Ethernet & Web Server*
- *Internal Battery Charger/UPS*
- *Integral sensor conditioning*
  (incl. thermocouples, 2 & 3 wire RTDs)
- *Built-in Analog/Discrete I/O*
  8 16-bit Analog Inputs
  2 12-bit Analog Outputs
  8 Discrete + 2 Mag Pickup Ins
  4 Relay Outputs
- *I/O Expansion to 8000 points*
- *3 Year Factory Warranty*

EtherLogic Advanta™ is an "open architecture" programmable controller with built-in Ethernet networking, wireless, hardwired and modem communications, and a large standard memory capacity for data logging and "over-the-link" program updates.

With 32-bit processing power and high level software tools that minimize programming time, EtherLogic Advanta™ bridges the gap between traditional PLCs, RTUs and the new generation of Ethernet and Web connected instruments.

Open Software

As an open architecture controller, EtherLogic Advanta™ includes an **IEC 61131-3** software kernel supporting six industrial control languages. EtherLogic Advanta™ also supports traditional text programming languages like **C/C++**. With EtherLogic Advanta™, you can mix and match any of these tools to get the job done quickly and reliably.

In addition to powerful programming tools, EtherLogic Advanta™ is supported by **ScadaBuilder**, software that eliminates hours of programming time with point-and-click configuration of serial and network communications, data and alarm logging, alarm annunciation (including pager and e-mail support), and a simple but powerful MMI interface over hardwired, radio and Ethernet connections.

Open Communications

The open architecture design of EtherLogic Advanta™ extends to its communications capabilities by supporting standard protocols like **Modbus (RTU, ASCII, TCP/IP), DF1, HART, NMEA-0183,** as well as the standard suite of Ethernet and Internet protocols. EtherLogic Advanta™ is easily integrated into existing factory Local Area Networks and SCADA systems, including all of the top HMI software packages, without special drivers. Need radio or dial-up access/dial-out alarming including voice? Built-in wide temperature range radios, telephone modems, and cellular modems are available options.

Industrial Control Links
(800) 888-1893 www.iclinks.com

EtherLogic Advanta

ANALOG INPUTS

Quantity of Universal Inputs	**4 pairs, 8 Inputs** (1 voltage/ current & 1 resistance input each)
Analog Input Signals	
Voltage	5Vdc, +/-300mV (+/-5Vdc/10Vdc w/ext. resistors)
Current	20mA
Resistance	0 to 65K ohms
Temperature Sensors	J, K, T, E, R, S, B, N thermocouple, 10K thermistor (Type II & III), 100 & 1000 ohm, type 385/392 RTD, 10 ohm 427 RTD
Input Overload Clamping	Inputs limited to 50mA and 6Vdc
Overload / Transient Protection	Transorb/Self Resetting Polyfuse
Analog Resolution	16 bits (1 part in 65535)

ANALOG OUTPUTS

Quantity	**2**
Output Type	0 or 4 to 20mA
Resolution	12 bits (1 part in 4096)
Overload / Transient Protection	Transorb/Self Resetting Polyfuse

DISCRETE INPUTS

Quantity	**8**
Input type	Optically isolated shared isolated commons, AC/DC
Input levels	9 to 50 Vac/Vdc (56-00xx) 80 to 150Vac/Vdc (56-01xx)

MAGNETIC PICKUP INPUTS

Quantity	**2**
Input type	AC sine wave/pulse, 8KHz max.
Input levels	0.15Vpp min., 100Vpp max.

DISCRETE OUTPUTS

Quantity	**4**
Output Rating (Resistive Loads)	10A @125Vac, 5 A @250Vac or 30Vdc - 100,000 cycles
Output Rating (Inductive Loads)	10A @277Vac - 10,000 cycles 1/10HP @125Vac or 1/6HP@250Vac 100,000 cycles

COMMUNICATIONS

Serial Port Interfaces	***3 + 1 Internal Modem/Radio***
COM #1 & COM #3	RS-232, 9 pin D Male
COM #4	RS-485, 2-pin Terminal Block
COM #5	Internal modem/Radio option

NETWORKING

Ethernet Port	10Base-T (10 Mb/sec), RJ-45

COMMUNICATIONS OPTIONS (one only per controller)

Internal Spread Spectrum Radios	900MHz, 1W, up to 115Kbaud 2.4GHz, 0.5W, up to 115Kbaud
Telephone modem w/voice	56K Baud, PC compatible
Cellular modem	GSM/GPRS Cellular
HART modem	Instrument comm - 20mA loops

GENERAL SPECIFICATIONS

Field I/O Wiring Terminations	Removable Terminal Blocks
Wire Size	#14 to #26 stranded/solid, #12 stranded only
Dimensions	7.0" W x 6.0" L x 2.5" D (178mm x 152mm x 64mm)
Power	8 to 26Vac, 10 to 36Vdc
w/o battery charging	1W (10W max. w/int. modem/radio) (12Vac/15Vdc min for UPS battery charging, adds up to 500mA in),
Temperature	-40°C to 75°C (-40°F to 167°F)
Humidity	5 to 95% RH (non-condensing)

AGENCY APPROVALS

USA	UL508
Canada	CSA C22.2 No. 142

SOFTWARE

IEC 61131-3 (ISaGRAF)	Ladder Diagram (LD) Structured Text (ST) Sequential Function Chart (SFC) Function Block Diagram (FBD) Instruction List (IL) Flow Chart
C/C++	Borland v3.1 to 5.0 w/ctrl & comm
SCADABUILDER	*Point-and-Click configuration of:*
Serial Communications	Modbus RTU/ASCII - Master/Slave, DF1 (Allen Bradley-Master/Slave), HART, PPP, NMEA-0183 (GPS) Bricknet (Peer-to-peer SCADA)
Ethernet Communications	Modbus TCP/IP, HTTP, FTP, TELNET
Simple MMI	ANSI/VT100 - serial data links, Telnet over Ethernet
Data and Alarm Logging	up to flash disk capacity (7MB typ)

ORDER PART NUMBERS: (includes ISaGRAF, ScadaBuilder, operating system and TCP/IP software licenses)

51-1002 EtherLogic Advanta, 12/24V DIs, Std (no int. radio/modem)
51-1012 EtherLogic Advanta, 12/24V DIs, 900MHz Freewave Radio
51-1022 EtherLogic Advanta, 12/24V DIs, 2.4GHz Freewave Radio
51-1042 EtherLogic Advanta, 12/24V DIs, 900MHz Maxstream Radio
51-1052 EtherLogic Advanta, 12/24V DIs, 56K Telephone Modem
51-1062 EtherLogic Advanta, 12/24V DIs, GSM/GPRS Cellular
51-1082 EtherLogic Advanta, 12/24V DIs, HART Modem
51-1092 EtherLogic Advanta, 12/24V DIs, extra RS-232/RS-485 port

51-1202 EtherLogic Advanta, 120/240V DIs, Std (no int. radio/modem)
51-1212 EtherLogic Advanta, 120/240V DIs, 900MHz Freewave Radio
51-1222 EtherLogic Advanta, 120/240V DIs, 2.4GHz Freewave Radio
51-1242 EtherLogic Advanta, 120/240V DIs, 900MHz Maxstream Radio
51-1252 EtherLogic Advanta, 120/240V DIs, 56K Telephone Modem
51-1262 EtherLogic Advanta, 120/240V DIs, GSM/GPRS Cellular
51-1282 EtherLogic Advanta, 120/240V DIs, HART Modem
51-1292 EtherLogic Advanta, 120/240V DIs, extra RS-232/RS-485 port

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