



Durus* Controllers

The strong and sturdy family of Durus Controllers integrates I/O, operator interface and control in one small package.

GE Intelligent Platforms' Durus Controller provides a rugged design and is filled with state-of-the-art features. It is built to take on the industrial environment with standard features like a built-in operator interface, a wide range of communications options, expansion slots, and a solid slide-and-snap mechanical interlock to expansion modules. Its rugged design and very competitive price allows users even more ability to meet their needs by complementing our existing line of controllers.



The Durus Controller can be programmed using both the built-in display and keypad or with the Durus Controls Software. The software provides convenient program creation and editing. Programs can be saved on a

computer and accessed at any time. They can also be uploaded from the controller and edited. The Durus Software provides a simulation mode that allows users to virtually run and test the program before it is loaded to the controller, eliminating mistakes before they ever make it to the plant floor or production environment.

Key Features:

- 8 Amp relay outputs, isolated
- Discrete and analog expansion up to 44 I/O
- Support for Modbus Slave, Profibus® Slave, DeviceNet™ Slave and Ethernet Server
- Ability to use two different programming languages: ladder logic or function block diagram
- Memory module enables easy upgrades
- Replacement of up to 15 timers and counters in an application
- LCD backlit display for easy viewing in all environments

The Durus Controller is ideal for applications requiring less than 44 inputs and outputs such as vending machines, packaging lines, security and assembly where it could result in cost reduction by replacing timers and counters. It provides a real time clock for timing,

high voltage output for controlling situations such as street light control, and the built-in programmer and operator interface allow for easy field modifications. In addition, the Durus Controllers' rugged design allows for use in environments such as conveyor control and water level control where delicate controllers might fail.

Software

Full featured Durus Software (IC646DUR001) enables users to develop applications in ladder logic or function block diagram programming. The Durus Software also comes with a powerful simulation tool that enables easy simulation of applications, and mimics the keystrokes on the built-in operator keypad.

The Durus provides a perfect complement to the GE Intelligent Platforms line of controllers; the VersaMax* Micro Nano is ideal for applications where more memory and I/O are needed whereas the Durus is ideal for the simpler applications. The Durus Controller meets all global standards including UL and CE, as well as China RoHS.



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Ordering Information

AC Controllers

IC210DAR012	10 point (8) 24 VAC Inputs, (4) Isolated Relay Out (8 Amps), 24 VAC input power, supports expansion and display/keypad
IC210DAR010	10 point (6) AC Inputs, (4) Isolated Relay Out (8 Amps), AC input power, supports expansion and display/keypad
IC210BAR010	10 point (6) AC Inputs, (4) Isolated Relay Out (8 Amps), AC input power, supports expansion and no display/keypad
IC210NAR010	10 point (6) AC Inputs, (4) Isolated Relay Out (8 Amps), AC input power, no expansion, no plastic case and no display/keypad
IC210DAR020	20 point (12) AC Inputs, (8) Isolated Relay Out (8 Amps), AC input power, supports expansion and display/keypad
IC210BAR020	20 point (12) AC Inputs, (8) Isolated Relay Out (8 Amps), AC input power, supports expansion and no display/keypad
IC210NAR020	20 point (12) AC Inputs, (8) Isolated Relay Out (8 Amps), AC input power, no expansion and no display/keypad

DC Controllers

IC210DDR112	10 point (6) 12VDC Inputs, (2) analog inputs ¹ , (4) Isolated Relay Out (8 Amps), 12VDC input power, supports expansion and display/keypad
IC210DDR012	10 point (6) 24VDC Inputs, (2) analog inputs ¹ , (4) Isolated Relay Out (8 Amps), 24VDC input power, supports expansion and display/keypad
IC210BDR012	10 point (6) 24VDC Inputs, (2) analog inputs ¹ , (4) Isolated Relay Out (8 Amps), 24VDC input power, supports expansion, no display/keypad
IC210NDR012	10 point (6) 24VDC Inputs, (2) analog inputs ¹ , (4) Isolated Relay Out (8 Amps), 24VDC input power, no expansion, no plastic case and no display/keypad
IC210DDD012	10 point (6) 24VDC Inputs, (4) 24VDC Out (Transistor 0.5 Amp), (2) analog inputs ¹ , 24VDC input power, supports expansion and display/Keypad
IC210BDD012	10 point (6) 24VDC Inputs, (4) 24VDC Out (Transistor 0.5 Amp), (2) analog inputs ¹ , 24VDC input power, supports expansion, no display/keypad
IC210NDD012	10 point (6) 24VDC Inputs, (4) 24VDC Out (Transistor 0.5 Amp), (2) analog inputs ¹ , 24VDC input power, no expansion, no plastic case and no display/keypad
IC210MDR124	20 point with Modbus Slave communications built-in (8) 12VDC Inputs, (4) analog inputs ¹ , (8) Isolated Relay Out (8 Amps), 12VDC input power, supports expansion and display/keypad
IC210DDR024	20 point (8) 24VDC Inputs, (4) analog inputs ¹ , (8) Isolated Relay Out (8 Amps), 24VDC input power, supports expansion and display/keypad
IC210BDR024	20 point (8) 24VDC Inputs, (4) analog inputs ¹ , (8) Isolated Relay Out (8 Amps), 24VDC input power, supports expansion, no display/keypad
IC210NDR024	20 point (8) 24VDC Inputs, (4) analog inputs ¹ , (8) Isolated Relay Out (8 Amps), 24VDC input power, no expansion, no plastic case and no display/keypad
IC210DDD024	20 point (8) 24VDC Inputs, (8) 24VDC Out (Transistor 0.5 Amp), (4) analog inputs ¹ , 24VDC input power, supports expansion and display/keypad
IC210BDD024	20 point (8) 24VDC Inputs, (8) 24VDC Out (Transistor 0.5 Amp), (4) analog inputs ¹ , 24VDC input power, supports expansion, no display/keypad
IC210NDD024	20 point (8) 24VDC Inputs, (8) 24VDC Out (Transistor 0.5 Amp), (4) analog inputs ¹ , 24VDC input power, no expansion, no plastic case and no display/keypad
IC210MDR024	20 point with Modbus Slave communications built in (8) 24VDC Inputs, (4) analog inputs ¹ , (8) Isolated Relay Out (8 Amps), 24VDC input power, supports expansion and display/keypad
IC210MDD024	20 point Modbus Slave communications built in (8) 24VDC Inputs, (8) 24VDC Out (Transistor 0.5 Amp), (4) analog inputs ¹ , 24VDC input power, supports expansion and display/keypad

¹Analog inputs can be configured as DC input points.

Discrete Expansion Units

IC210EAR008	8 point discrete expansion (4) AC Inputs, (4) Isolated Relay Out (8 Amps), AC input power
IC210EAR208	8 point discrete expansion (4) 24VAC Inputs, (4) Isolated Relay Out (8 Amps), AC input power
IC210EDR008	8 point discrete expansion (4) 24VDC Inputs, (4) Isolated Relay Output (8 Amps), 24VDC input power
IC210EDD008	8 point discrete expansion (4) 24VDC Inputs, (4) 24VDC Out (Transistor 0.5 Amp), 24VDC input power

Analog Expansion Unit

IC210EAI004	4 point analog expansion (4) analog inputs (voltage and current, 10 bit), 12/24 VDC input power. Only one analog expansion supported on the Durus Controller
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Communications Options

IC210EMS001	Modbus RTU slave communications expansion module, 24VDC power source
IC210EPS001	Profibus-DP slave communications expansion module, 24VDC power source
IC210EDS001	DeviceNet slave communications expansion module, 24VDC power source

Software

IC646DUR001	Durus Software for ladder logic or Function Block diagram programming. Includes simulation tool.
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Accessories and Cables

IC210TMP001	Durus Controllers FLASH Memory Pack that enables user to download application and upload application to Durus Controller
IC210CBL001	Durus Controller to PC RS-232 Serial Cable
IC210CBL002	Durus Controller to PDA Transfer Cable

Programming and Trouble Shooting Tools

IC646DUR001	Durus Controllers Program and Simulation Software
IC646DUR101	Durus Controllers Program and Simulation Software and PC to Controller RS-232 Cable (IC646DUR001 and IC210CBL001)

Starter Kits

IC210TBX010	IC210DAR010 10 point Durus Controller. AC Power Source, 6 AC in/4out (Relay 8 Amp), Expandable, with LCD/Keypad. Kit includes programming software and cable. (IC646DUR101)
IC210TBX012	IC210DDR012 12 point Durus Controller. 24 VDC Power Source, (6) 24 VDC in / (4) out (Relay 8 Amp), (2) analog inputs, Expandable, with LCD/Keypad. Kit includes programming software and cable. (IC646DUR101)
IC210TBX020	IC210DAR020 20 point Durus Controller. AC Power Source, (12) AC in/8 out (Relay, 8 Amp), Expandable, with LCD/Keypad. Kit includes programming software and cable. (IC646DUR101)
IC210TBX024	IC210DDR024 20 point Durus-20 Controller. 24 point 24 VDC Power Source, (8) 24 VDC in/8 out (Relay, 8 Amp), (4) analog inputs, Expandable, with LCD/Keypad. Kit includes programming software and cable. (IC646DUR101)
IC210TBX124	IC210MDR024 20 point Durus-20 Controller. 24 VDC Power Source, (8) 24 VDC in/8 out (Relay, 8 Amp), (4) analog inputs, Expandable, with LCD/Keypad. Support Modbus Slave on port. Kit includes programming software and cable. (IC646DUR101)

GE Intelligent Platforms Contact Information

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Global regional phone numbers are listed by location on our web site at www.ge-ip.com/contact

www.ge-ip.com

