



MC Series · Real-time Performance + Intelligent Data Logging

MC-i400 Industrial Controller

The MC-i400 is HSI's mid-level Modern Controller — a multi-network edge computer with a premium kernel for near real-time PLC performance, purpose-built for gas turbine control and demanding generation applications. CODESYS multicore PLC tasks easily run at 1 ms; with Beckhoff I/O over EtherCAT, field I/O runs in lock step with the PLC application. VersaCore historian is pre-integrated.

Gas Turbine Ready

Positioned for gas turbine control and related generation packages where near real-time loops and control fidelity matter — plus VersaCore logging in one industrial unit.

Instant Data Logging

VersaCore ships pre-integrated. Start capturing CODESYS application data from day one — no separate historian setup.

Local HMI Ready

Built-in HDMI turns the MC-i400 into a local HMI station — plug in a monitor to view live process data and trends on local equipment, no extra display programming.

EtherCAT Lock-Step I/O

Beckhoff I/O over EtherCAT runs in lock step with the PLC application. Also supports PROFINET, EtherNet/IP, Modbus, CANopen, plus GE EGD for GE/Emerson platforms.

Premium Near Real-Time Kernel

Premium kernel tuned for near real-time PLC performance — plus four GbE ports and up to 2 TB SSD for multi-segment networks and high-volume local logging.

CODESYS Multicore · 1 ms Tasks

Full CODESYS runtime with multicore PLC tasks easily run at 1 ms, free IDE, IEC 61131-3 languages, and web visualization — high price-to-performance control.

Technical Specifications

BUILT ON THE ONLOGIC KARBON 430 RUGGED PLATFORM

HARDWARE

Compute	4-core CPU
Storage	Up to 2TB SSD
Networking	4 × 1Gb Ethernet ports
Serial	2 × DB9 serial ports Configurable RS-232 / RS-422 / RS-485
Power Input	9-48VDC, low power consumption
Local I/O	HDMI, USB 3.0, dual USB 2.0
Design	Fanless, rugged, industrial aluminum chassis, -40 to 70°C temperature range

SOFTWARE STACK

Linux with premium / near real-time kernel for PLC performance

PLC Runtime CODESYS — full IEC 61131-3, multicore PLC tasks (1 ms cycles), free IDE, web visualization

Edge Historian VersaCore — pre-integrated, ready at first boot

Data Ingestion High-performance OPC UA subscription from the co-located CODESYS PLC runtime

Analytics High-speed trending, exporting data, and API access

Scale Edge-to-enterprise — a handful of tags to thousands

Fieldbus & Protocol Support

GE EGD (GE/Emerson)

EtherCAT

PROFINET

EtherNet/IP

Modbus TCP/RTU

CANopen

+ full CODESYS library ecosystem



Top - Flexible local I/O. Display Port, USB 3.0, USB 2.0, and status LEDs for power, activity, and quad LAN — everything needed for on-site setup and visualization.



Bottom - Deploys at the industrial edge. The MC-i400 controls EtherCAT (Beckhoff lock-step I/O), PROFINET, and Modbus I/O of your choice — with 1 ms multicore PLC tasks and a near real-time kernel.

Typical Applications

- Remote monitoring and control
- Edge gateways, protocol converters & data concentrators
- Gas turbine control, BOP, gas compressor, DCS replacement
- Near real-time PLC control + historian for generation packages

Ready to spec an MC-i400 for your site?

Contact Heiberger Solutions for gas turbine and generation configurations, multicore CODESYS projects, Beckhoff EtherCAT I/O, VersaCore setup, or custom protocol support.