

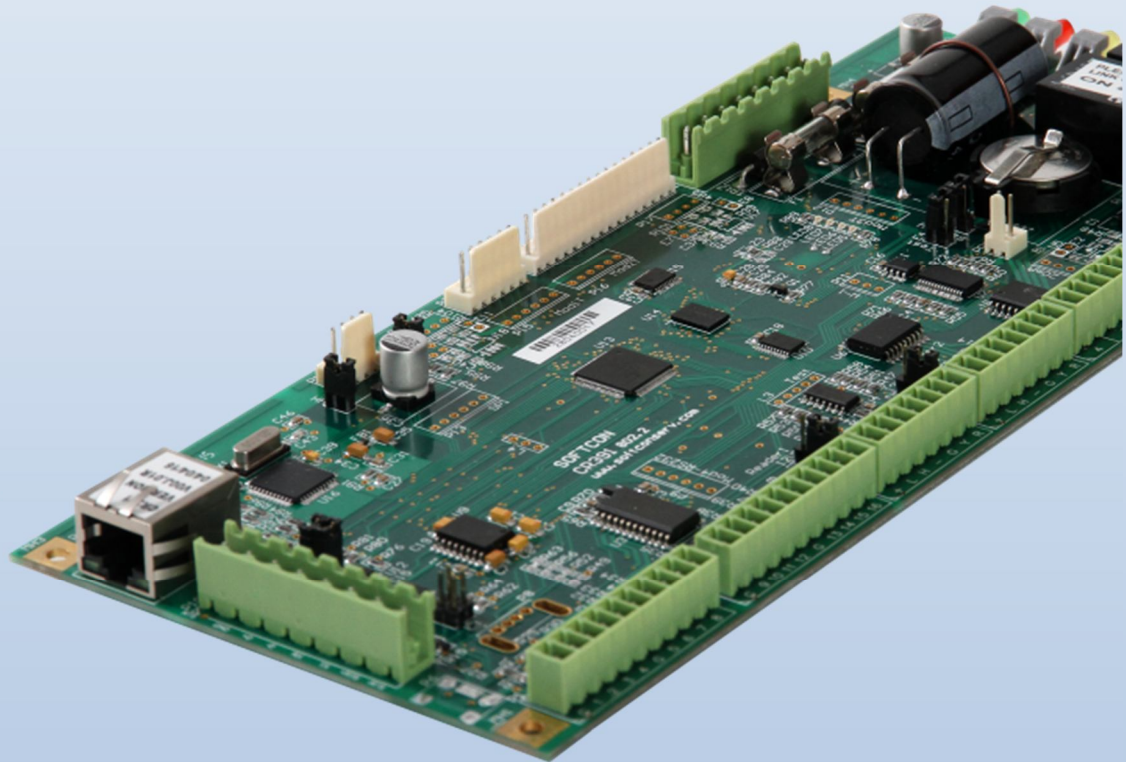


CR391 Universal Controller

Stand-alone or system integrated
SW development Kit (SDK)

LOCAL APPs

Access
Random check
Cash loader
Vending
Intrusion
PLC
Input monitoring
Output control
Lift control



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System functions

- Stand-alone or system integrated
- Token- Card- Finger reader to output control
- Inputs (contacts, temperature, etc.) to output control
- Real Time Clock, time-out and counting control
- Vending cashless control: I/O, Access, MDB/Exec protocols
- Vending machine management DDCMP/DEX/UCS protocols
- Cash loader
- On-board www
- Integration / configuration of all functions to requirement

Access functions

- Anti-pass back, anti-time back control
- Batch loading of void and valid cards
- Adjustable latch and door open detection timeouts
- Vehicle detect provides reader enable and vehicle APB
- Egress / override facility
- Card capture, motorized reader / capture interface
- Multiple illegal entry attempts disable reader
- Integrated random search
- Mantrap
- Output groups

Vending / Cash-loader functions

- Cashless vending – free / quantities per period / subsidies / pre-paid and external payment systems
- Product management with low quantity alarms
- Machine management - alarms / warnings, recipe
- Coin / Note reader

Reader interface

- 2 Card reader (expandable to 8 via front-end modules) Data/clock, Wiegand, Touch or serial (RS232 or RS485)
- Pin pads and LCDs – and programmer (via front-ends)
- Sallis Salto RS485 interface

Input/output capabilities, functions

- 10 configurable outputs - 4 relay, 6 open collector
- 16 supervised inputs - tranzorb protection
- Expansion modules (TTL, SPI, RSS485, 1-wire) Expand to 120 Inputs, 80 outputs
- Built in APPs: Intrusion and Lift-control
- Programmable Logic Control (PLC)
- Timers, counters, triggers and events

Communication options

- TCP/IP (100M), USB-2 (host and device)
- 5 serial (2xRS232 / 4xRS485 / 20mA)
- LAN controller (TCP / USB / GSM / WiFi / RS485)
- 3 serial expansion modules
- SPI expansion module
- I/O expansion (A2D, Output)
- 1-Wire to 8 Output, 8 Digital Thermometers
- Communications encrypted

Resource specification

- 130k random; 16 hex digit cards with 6 digit PIN
- 10k Transaction buffer
- 60 time groups, each 15 with 8 time zones
- Time accumulation logging (day / week / month)
- 30 holidays. Time groups with weekday, holiday enable
- Transactions are time and date stamped - NOVRAM
- Real time calendar clock with battery back-up

Diagnostic and programming tools

- Software watchdog and power dip reset
- 7 diagnostic LEDs display
- On-line Firmware update
- Configuration via multiple communication channels

Cable lengths and types

- Reader to CR391: 8 Core multi-strand Mylar, 0.2mm², with screen; 50 m maximum (Reader dependent)
- CR391 to CR375: 2 Pair twisted multi-strand Mylar, 0.2mm² with screen; 2000m total length
- CR391 to 1-wire modules: 2 Pair twisted multi-strand Mylar, 0.2mm² with screen; 20m total length
- CR391 to IO 390/1 modules: 8 core multi-strand Mylar, 0.2mm² 50cm
- RS485 LAN Cable: 2 Pair twisted multi-strand Mylar, 0.2mm² with screen; 2000m total length

Housing and dimensions

- Powder-coated steel enclosure with lock (White)
- 255mm (H) x 300mm (W) x 90mm (D)
- 315mm (H) x 300mm (W) x 90mm (D) with integrated UPS

Power supply and consumption

- Optional integrated 7Ahr-battery backup, mains monitor
- AC or DC power source

Environmental conditions

- Storage Temperature: -20 to 65 Degrees C
- Operational Temperature: 0 to 45 Degrees C
- Humidity: 80% non-condensing

