

8864 Data Controller

ESC Spectrum's Next Generation CEMS Data Controller

This **industry-leading** CEMS Data Controller Provides Reliable, Robust Data Collection, Computation and Storage Capabilities.



Power Through the Next Decade of CEMS Data Collection

The 8864 Data Controller improves upon the 8832 Data Controller, offering 10X more storage space and network speed and 100X more data storage. This hard-working device accurately and securely acquires, stores and protects your CEMS data from communications failures with your DAS system.

Powerful Hardware

The 8864's dual Ethernet interfaces allow you to communicate independently and simultaneously with an instrumentation or a CEMS network, as well as StackVision™ server on the network. Each network port supports multiple sessions of data polling and remote user interaction while the 8864 continues to collect, compute and store new data. Three built-in USB ports allow connections to external keyboards, trackballs, mice and/or supporting USB flash drives.

Intuitive and Ready to Use

A capacitive touch screen and intuitive UI makes performing common functions without a keypad or external device easy. You can access the UI remotely anywhere you have a network connection and web browser.

Superior Network Security

Remote browser connections require HTTPS and remote terminal sessions utilize a secure SSH protocol.



The 8864 Data Controller has improved speed, configuration space, and data storage for your convenience.



The 8864 continues the tradition of rock-solid controllers that "just work."

Questions about the 8864 Data Controller? Contact Sales at sales@escspectrum.com or 512-250-7902

512-250-7902
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10801 N Mopac Expy, Bldg 1-200
Austin, TX 78759



ESC Spectrum

8864 Specifications

CPU	AMD Geode LX 800
Data Bus	64 bits
Speed	500 MHz
Cache	64K L1 cache and 128K L2 cache
FLASH	4 GB - firmware, configuration, and data channels
DRAM	256 MD - operational data and code execution
Ethernet	Dual 10/100 Mbps
Serial Port 0	Optically isolated RS-485 or optional RS-232
Serial Ports 1-3	Optional R-232 or RS-485
MODBUS	MODBUS protocol is supported on any serial or Ethernet port
LCD	7 inch, 16 Million colors, resolution 800 x 480, TFT active matrix
USB	USB 2.0 - two rear, one front port
Channels	999 Channels - with up to one year of data storage
Digital I/O Points	999 maximum
Dimensions	17.0w x 5.25h x 14.0d inches (43.2w x 13.3h x 35.6d cm) -- 19-inch rack
Weight	About 12 pounds (4.5 kg)
Power	Universal 110/220VAC, 50/60 Hz, less than 60W

I/O Expansion Slots - Up to 12 Available Expansion Card Options (8 Points per card)

Analog Current Input - 4-20mA current loop available, differential with programmable gain amplifier

Analog Voltage Input - +/- 100mV, +/- 1V, +/-5V, +/-10V full scale

Digital Input - Detects contact (relay) closures or voltage-to-ground transitions (to 24V); optional software debounce

Isolated Digital Input - Detects open-to-voltage transitions (24V to 120V, AC or DC); optional software debounce available

Meterological Input - Rainfall, Wind Speed/Direction, Temperature, Excitation V Output

Digital Output - Latching-coil relays; rated load: 5A @ 250VAC, 5A @ 30VDC

Analog Output - 4-20mA current loop outputs; 12-bit resolution

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