OP7200 eDisplay Series

Ethernet-Intelligent Operator Interface

The compact eDisplay is an intelligent operator interface ideal for data acquisition and stand-alone systems such as factory floor controls.
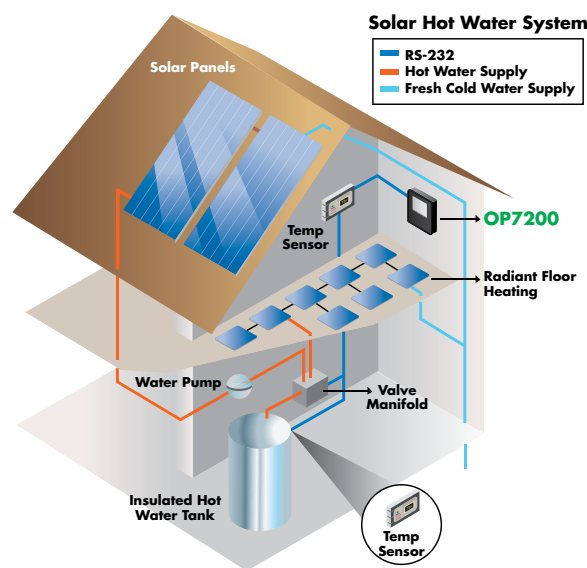
Overview

The OP7200 series of intelligent operator interfaces offers rugged I/O and Ethernet connectivity, along with optional A/D and touchscreen capabilities. The 10-Base-T Ethernet facilitates remote diagnostics, control and communication, including sending and receiving emails and alerts. Both models come equipped with a ¼ VGA display with a 9-key keypad and programmable on/off white LED backlight. The OP7200 series also provides easy-to-use menu building software and offer a programmable audible alarm for prompt notification and keypad/display feedback.

Functionality of the OP7200 series can be expanded using the optional RabbitNet™ expansion cards. RabbitNet expansion cards can be tailored to a large variety of demanding applications.

Application Highlight

Solar Hot Water System

- RS-232
- Hot Water Supply
- Fresh Cold Water Supply

Solar Panels

OP7200

Temp Sensor

Radiant Floor Heating

Water Pump

Valve Manifold

Insulated Hot Water Tank

Temp Sensor

Potential Applications: Industrial real-time control and automation, remote machine control, data acquisition, display dependent applications

Features/Benefits

- **Rabbit® 2000 microprocessor at 22 MHz**
- **¼ VGA display (320 x 240 pixels)**
- **10Base-T Ethernet, RJ-45**
- **256K Flash/128K SRAM**
- **24-27 industrialized I/O and 4 CMOS-compatible serial ports**
- **English and foreign language fonts**
- **Graphic and bitmap images**
- **Open source GUI libraries**

Specifications	OP7200	OP7210
Feature		
Microprocessor	Rabbit® 2000 at 22 MHz	
Ethernet Port	10/100-compatible with 10Base-T interface, RJ-45	
Flash Memory	256K	
SRAM	128K	
Backup Battery	Socketed 3V lithium coin type, 265 mA·h	
Keypad/Display	¼ VGA (320 × 240 pixels) with programmable white LED backlight, black on white display, transflective FSTN LCD, 6 o'clock viewing angle; 9-key keypad	
Touchscreen	4096 × 4096 resistive touchscreen	None
LEDs	4: Power On, Microprocessor Error, Ethernet Link, Ethernet Activity	
Digital Inputs	19: Protected to ±36VDC	16: Protected to ±36VDC
Digital Outputs	8: Individually configurable in software to sink up to 350 mA each, 36VDC max., or source up to 250 mA each, 40VDC max	
Analog Inputs	8 single-ended or 4 differential, 200 kΩ input impedance, 1.5 ksamples/s sampling rate Software-controlled ranges: 0–1V, 2V, 5V 10V, 20VDC (11-bit single-ended, 12-bit differential)	None
Connectors	Four 12-position screw-terminal headers, 0.1" pitch	Three 12-position screw-terminal headers, 0.1" pitch
Serial Ports	4 serial ports: • 2 RS-232 or 1 RS-232 (with CTS/RTS) • 1 RS-485 with onboard network termination and bias resistors or 1 RS-422 SPI master port • One 5V CMOS-compatible programming port	
Serial Rate	Max. burst rate = CLK/32, Max. sustained rate = CLK/64	
Real-Time Clock	Yes	
Timers	Five 8-bit timers (4 cascadable from the first), one 10-bit timer with 2 match registers	
Watchdog/Supervisor	Yes	
Power	9–40V DC or 22–26V AC, 4W max.	
Temperature	Operating Range: -10° C to +65° C Storage Range: -30° C to +80° C	
Humidity	20% to 70%, non-condensing	
Unit Size	4.41" × 5.67" × 1.70" (112 mm × 144 mm × 43 mm)	
Pricing		
Price (qty. 1) **Part Number**	$449 20-101-0535	$399 20-101-0536

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