

NEW!

OP7100

Features

- 1/4 VGA touchscreen display (320 x 240 pixels)
- Bezel mount
- Two serial ports
- Vertical or horizontal orientation
- Hardware and software contrast control
- Clear touchscreen overlay with 8x8 (interpolated to 15x15) button matrix
- Software-controlled backlighting
- Wide viewing angle
- NEMA-4 panel

The OP7100 is an “intelligent” touchscreen display: with its C-programmable microprocessor and abundant memory, the OP7100 can perform computation and store relatively large amounts of data. The OP7100 features a graphic LCD (320x240 pixels) having a white background with black images for legibility.

The display is compact and supports both graphics and text. The OP7100 and OP7110 have a horizontal format while the OP7120 has a vertical format. Software can control the screen contrast and turn CCFL backlighting on and off to enhance visibility or to provide visual feedback.

Software included with the OP7100 provides three fonts (small, medium and large) but you can define your own fonts in any language and use symbols and icons as well. You can store up to 50 images in flash memory for immediate recall. OP7100 software includes graphics functions such as ‘draw filled circle’ and ‘draw filled polygon.’

Your software can divide the display into regions; one region can scroll, another remain stationary. You can apply reverse, outlined, or blinking attributes to a region. Naturally, you can mix graphics and text.

Because the OP7100 has a serial interface (RS-232), you can use it with virtually any computer system. Use the OP7100 with its touchscreen or the OP7110 or OP7120 with your own keypad for a full user interface.

Because of its C-programmable microprocessor, its “smart” LCD controller, and keypad options, the OP7100 series has the flexibility required for almost any application. The OP7100 is ideal for remote terminals and automated machinery or control systems.

Programming the OP7100

Software is developed for the OP7100 using Z-World’s Dynamic C® software development system.

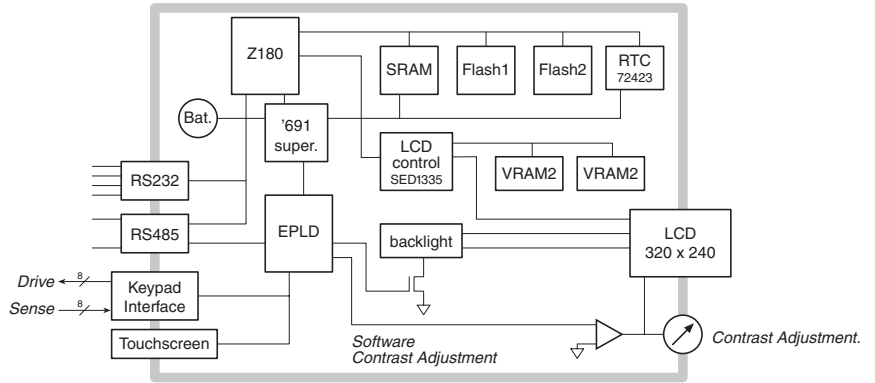
Developer’s Kit

The OP7100 Developer’s Kit includes all the tools needed for fast development: AC adapter, programming cable, manual with schematics, and supplemental software diskette.



OP7100 Specifications

| | |
|---------------------|--|
| Module size | 6.63"×4.4"×1.36" (168.4×111.8×34.5) |
| Bezel size | 8.0"×5.4"×0.156" (203.2×137.2×4.0) with gasket |
| Package size | 8.0"×5.4"×1.6" (203.2×137.2×40.7) |
| Operating temp. | 0°C to 50°C, r.h. 25% to 65% noncondensing. Storage temp. -20°C to 70°C |
| Power | 10–30VDC. Draws 4.5W with backlight, 1.5W without |
| LCD | FSTN, 320×240 pixels, black on white background. Pixel matrix is 115.2 x 86.4 mm (0.36mm pitch). Viewing area is 121×91 mm. (4.76"×3.58"). Adjustable contrast with temperature compensation |
| Backlight | CCFL (cold-cathode fluorescent) with software control (on/off) |
| Processor | Z180 at 18.432 MHz |
| SRAM | 128K standard, up to 512K |
| VRAM | 32K standard, up to 64K |
| EEPROM | Simulated in flash |
| Flash | Two, 256K standard |
| Serial port | Two 3-wire RS-232, one 3-wire RS-232 and one RS-485, or one RS-232 with CTS/RTS handshaking. Up to 57,600 bps |
| Watchdog/supervisor | Yes, '691 |
| Time/date clock | Yes, 72423 |
| Connectors | Five 0.15" quick-release screw terminals. DE9 female |
| Backup battery | Yes, 3V lithium coin-type, 165 mA-h |
| Keypad | Normally uses touchscreen. Has connector and driver for keypads up to 8 rows and 8 columns |

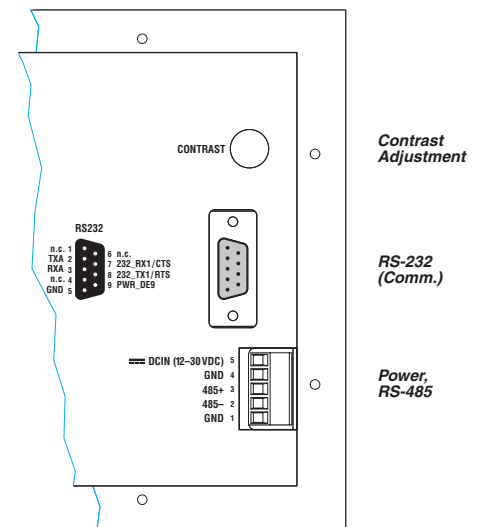
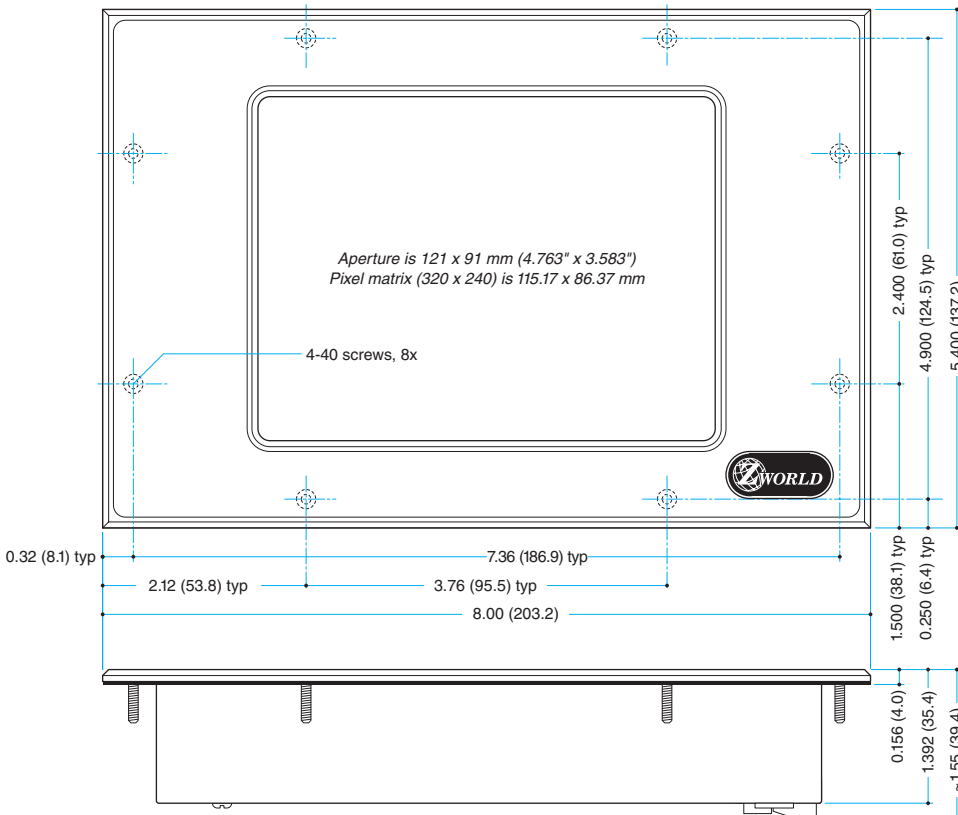


Versions

- OP7100 Standard configuration, given in the specifications on this page. Horizontal orientation
- OP7110 Same specifications as for the OP7100 but without touchscreen overlay
- OP7120 Same specifications as for the OP7100 but with *vertical* orientation and without touchscreen overlay

Options and Upgrades

Serial Interface Board. Allows programming through the special programming port on the OP7100, leaving other serial channels available. Includes programming cable



OP7100 Connectors

OP7100 Dimensions