

PAN_SIMOV

Il SIMOV nasce per il supporto degli operatori professionali in campo acquariologico e di acquacoltura. È una centralina per il monitoraggio in continuo dei parametri chimico fisici dell'acqua. Grazie ai protocolli di trasmissione in digitale è capace di gestire una grande mole di dati e numerose sonde di diversa tipologia, con combinazioni di visualizzazione facilmente personalizzabili e adattabili alle specifiche esigenze del cliente.

I dati possono essere consultati in locale o da remoto, attraverso collegamento Wi-Fi, con la possibilità di essere inseriti in un database. Su richiesta è disponibile una versione del sistema portatile.

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Risoluzione Display: 480x272 pixel, touch screen resistivo, dimensioni 4,3", LCD-TFT
Visualizzazione sinottica parametri monitorati
Grado di protezione: IP65
Tensione di alimentazione: 230 VAC
Temperature operative: da -5°C a 60°C
Dimensioni: mm 298 x 260 x 140
Configurazione rete: LAN e Wi-Fi personalizzabile (GSM 4G opzionale)
Trasmissione dati: RS 485
Funzione calibrazione sonde





Sensori

- pH
- ORP
- Temperatura
- Conducibilità/salinità/temperatura
- Ossigeno/temperatura
- Pressione totale gas disciolti
- Pressione barometrica





Uscite opzionali personalizzabili:

- Allarme (Luci)
- Allarme (sirena)
- Allarme (email)
- Allarme (SMS)
- Controllo attuatori (elettrovalvole, soffianti, ecc.)







PLC Specifications

- Chip: Broadcom BCM2836 SoC
- Core architecture: Quad-core ARM Cortex-A7
- CPU: 900 MHz
- GPU: Dual Core VideoCore IV® Multimedia Co-Processor. Provides Open GL ES 2.0, hardware-accelerated OpenVG, and 1080p30. H.264 high-profile decode Capable of 1Gpixel/s, 1.5Gtexel/s or 24GFLOPs with texture filtering and DMA infrastructure

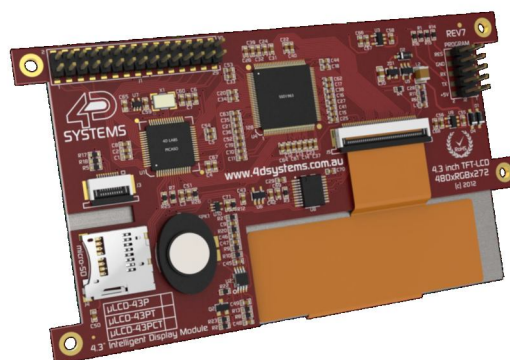
- Memory: 1GB LPDDR2
- Operating System: Boots from Micro SD card, running a version of the Linux operating system
- Dimensions: 85 x 56 x 17mm
- Power: Micro USB socket 5V, 2A

PLC Connectors

- Ethernet: 10/100 BaseT Ethernet socket
- Video Output: HDMI (rev 1.3 & 1.4)
- Audio Output: 3.5mm jack, HDMI
- USB: 4 x USB 2.0 Connector
- GPIO Connector: 40-pin 2.54 mm (100 mil) expansion header: 2x20 strip providing 27 GPIO pins as well as +3.3 V, +5 V and GND supply lines
- Camera Connector: 15-pin MIPI Camera Serial Interface (CSI-2)
- JTAG: Not populated
- Display Connector: Display Serial Interface (DSI) 15 way flat flex cable connector with two data lanes and a clock lane
- Memory Card Slot: Micro SDIO

Display features

- 4.3" LCD-TFT display graphics user interface solution.
- 480 x 272 VGA resolution, RGB 65K true to life colours, TFT screen with integrated 4-Wire Resistive Touch Panel (PT Version only) or Capacitive Touch Panel (PCT Version only).
- Easy 5 pin interface to any host device: VCC, TX, RX, GND, RESET
- Powered by the 4D-Labs PICASO processor (also available as separate OEM IC)
- 14KB of flash memory for user code storage and 14KB of SRAM for user variables, or 14KB shared user code and program variables.
- 2 x Asynchronous hardware serial UART ports (COM0, COM1), TTL interface, with 300 to 600K baud.
- 1 x I2C interface (Master).
- 8 x 16 bit timers with 1 millisecond resolution.
- 13 x General Purpose I/O pins. Supports fast 8-bit parallel data transfer through Upper 8 bits.



Panaque s.r.l.

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- On-board micro-SD memory card adaptor for multimedia storage and data logging purposes. HC memory card support is also available for cards larger than 4GB.
- DOS compatible file access (FAT16 format) as well as low level access to card memory.
- Dedicated PWM Audio pin driven by WAV files from micro-SD card.
- On-board audio amplifier with a tiny 8Ω speaker for sound generation and WAV file playback.
- Built in extensive 4DGL graphics and system library functions.
- Display full colour images, animations, icons and video clips.
- Supports all available Windows fonts.
- A 30 pin header for I/O expansion and future plug-in daughter boards.
- 4.5V to 5.5V range operation (single supply).
- Module dimensions: 120.0 x 67.3 x ~15.2mm (including headers, see mechanical drawing).
- Weight ~ 79g.
- Display Viewing Area: 94.04 x 53.86mm.
- 4 x 3.0mm PCB holes for mechanical mounting.
- RoHS Compliant.

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