

VIDA4.0

Providing the power to connect, capture, communicate & print

PRODUCT DATA SHEET

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THE FEATURES

- Versatile, interconnected mobile printer solution
- Integrated WiFi 802.11 b/g/n and Bluetooth 4.1/LE
- Driver-less printing from Windows, Android, Apple and Linux devices (PostScript compatible)
- High resolution text or graphics thermal printing
- Compact and light weight
- Barcode and QR code recognition
- Embedded web server and secure networked database & cloud integration capability
- Internal and removable data storage for data logging
- Interfaces for internal/external sensor integration
- Custom application development support



THE FEATURES




VIDA 4.0 is the evolution of mobile printing to meet today's diverse range of requirements for interconnected applications. Based on a high performance low-power processor, VIDA 4.0 is available with a configurable Linux-based operating system, providing the opportunity to develop and run custom applications. A flexible range of communications options further ensures the ease of integration into existing and future systems.

VIDA 4.0 includes Martel's high-resolution thermal printer engine, enabling quiet, reliable, maintenance-free printing of text and graphics on paper and linerless labels. 'Driver-less' wireless printing from both local and networked devices is possible through the integrated support for Postscript via the Internet Printing Protocol and Apple Airprint. VIDA 4.0 functionality can be configured remotely via its web interface.

VIDA 4.0 Developer Kit is also available on request for custom hardware and software application development.



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VIDA40

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Platform Specification

Processor

Processor: ARM® Cortex®-A7 @ 500 MHz
Memory: 512 MB DDR3L SDRAM
Storage: Up to 512 MB NAND Flash or up to 32 GB eMMC
Real-time clock with on-board battery backup

Connectivity

Wireless: WiFi 802.11 b/g/n networking with onboard antenna and Bluetooth 4.1/LE
Wired: RS-232 (115200 Baud with hardware or software handshaking)

Connectivity Options (factory-fitted)

- USB 2.0 Full/High speed host port
- USB 2.0 Full/High speed device port
- 10/100 Ethernet port
- I2C, SPI, Serial Port UART (with hardware flow control up to 3.6Mbps)
- Four configurable user switches/buttons
- Four 12-bit ADC inputs (also configurable as General-Purpose I/O or LED outputs)
- SD Memory Card support (up to 128GB)

Operating System

MartelOS (Linux OS compatible with Debian ARM Linux, Kernel v4.4)

- Embedded web server
- Secure networked database & cloud
- Integration capability
- Internet Printing Protocol
- Apple Airprint

Printer Specification

General printer information

Printing system: Direct thermal line head
Max. characters per line: 48, 32, 24(default), 16 and 12
Character matrix: 24x8, 24x9, 24x12 or 24x16
Character size: 3mm x 2mm, 3mm x 1.5mm or 3mm x 1mm (Approx. 13, 17 or 25cpi)
Horizontal dot pitch: 0.125mm (Approx. 200dpi)
Vertical dot pitch: 0.125mm
Text line composition: 24x384 dots
Printing width: 48mm
Average printing speed: 10 lines of text per second (max)

Paper and Language Support

Paper width: 58mm
Paper capacity: 48mm diameter
Character set: UK / United States (437)

Printer Dimensions (mm)

W 85.5 x D 105 x H55

Power

- internal 4 x 1.2V NiMH 1600mAH, AA cells
- external 10-35Vdc
- external 5Vdc

Environmental Conditions

Operating range: 0°C to +50°C (32°F to 122°F)
Storage range: -20°C to +60°C (-4°F to 140°F)
Charging range: +10°C to +45°C (50°F to 113°F)



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