

Embii VuMate 5



The **Embii VuMate 5** is a **fully programmable, multifunctional embedded display** computer which utilizes an ARM Cortex-A5 processor. A 5-Inch WVGA resolution, high brightness display is provided to display information in a wide variety of on- and off-road vehicle applications, including agriculture, industrial, utility, cargo and marine. Other applications include instrumentation, material handling, GUI, control system or video monitor.

The display is offered in both a keypad and touch screen configuration for **user friendly** interaction with the display.

Models	PART NUMBER JFET 1000-01	PART NUMBER JFET 1001-01	PART NUMBER JFET 1002-01	PART NUMBER JFET 1003-01
KEYPAD	×		×	
TOUCH SCREEN		×		×
OPTICAL BONDING			×	×

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SPECIFICATIONS

PROCESSOR

CPU	Atmel SAM5D3 ARM Cortex®-A5 @ 536 MHz 32Kbytes Instruction Cache 32Kbytes Data Cache
Memory	256MB x 32 DDR2 @ 166MHz
Flash	256MB NAND Flash, 32Mbit SPI Flash, 2Kbit EEPROM

DISPLAY

Type	TFT with LED backlight and anti-reflective film
Size & Resolution	5-Inch WVGA, 800 x 480
Color Depth	24-bit
Brightness	700 cd/m2
Dimming	Via ambient light sensor or controlled manually
Optical Bonding	TFT glass optically bonded. Optional

HMI

Keypad	2x5 Keypad used as function keys for GUI
Touch Screen	Capacitive Touch. Optional
Buzzer	For alarms and notifications

INTERFACES

Ethernet	1 x 10/100/1000 Base-T
USB	1 x USB 2.0 Host/Device 1 x USB 2.0 Host
CAN	2 x CAN, ISO11898 2.0B
Key Switch	1 x key switch input
Inputs	4 configurable inputs for analog/digital sensing. Used for measuring resistance/current/frequency/ Digital/Analog inputs
Outputs	4 configurable high side outputs Continuous driver or PWM output
Video	1 x Analog Video input, NTSC or PAL
Input Supply	12, 24 or 48 VDC nominal voltage

SOFTWARE

Operating System	Linux
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SIZE AND WEIGHT

W X H X D (mm)	TBD
Weight (Kg)	TBD

ENVIRONMENTAL

Temperature Range	Operating: -40°C to +70°C Storage: -40°C to +85°C
EMC Emissions	Conducted and Radiated – SAE J1113/41
EMC Immunity	Conducted – DC Power Leads – SAE J1113/3 Radiated – Electric Field – SAE J1113/21 Radiated – Stripline – SAE J1113/23 AC Power Line – SAE J1113/26 ESD – Handling and Operation – SAE J1113/13 Bulk Current Injection – SAE J1113/4 Conducted Transients – SAE J1113/11 – 24VDC
Vibration	Swept Sine Vibration – 10-80-10 Hz (20g max) – SAE J1378 Random Vibration – 5 Hz to 2000 Hz, 2.97 Grms
Shock	Half-Sine Pulse, 44 - 55g, 9 – 13 ms duration – SAE J1378
Humidity	95% RH (non-condensing) at +38°C – SAE J1455
IP Class	IP67

REGULATORY APPROVALS

Approvals	RoHS Compliant CE Mark UL Mark
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ENCLOSURE

Housing Material	Plastic
Keypad	Rubber
Mech. Installation	Panel Mount or RAM Mount
Connectors	1 x TE Connectivity AMP Seal 35-Pin Connector 1 x Micro USB 2.0 Device/Host

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