

UV500 Specifications

- **Computing**

- **Processor:** Renesas® RZ/G1e Arm® Cortex®-A7 dual-core processor @ 1.0 GHz (32-bit)
- **Software:** QNX® Realtime Operating System
- **Storage:** 8 GB flash memory
- **RAM:** 256 MB DDR3-SDRAM

- **Display**

- **Display Area:** 5-inch (108 mm [H] x 64.8 mm [V])
- **Type:** LVDS TFT LCD with LED backlight, 24-bit color
- **Resolution:** 800 x 480 (WVGA)
- **Contrast Ratio:** Typ. 1000:1
- **Brightness:** 900 cd/m² (900 nits)
- **Surface:** Anti-glare
- **Touch Panel:** Projected capacitive (PCAP) with glove touch

- **Hardware**

- **Real Time Clock:** Li-Ion battery backup (Typ. lifespan 10 years), non-rechargeable, non-replaceable
- **Connectors:** (4) 6-position DEUTSCH® style DT series
- **Video Inputs:** (2) NTSC/PAL (single channel viewable)

- **Communication**

- **CAN:** (2) CAN 2.0B according to ISO-11898-2; J1939 and proprietary messaging
- **Serial:** (1) RS-485 MODBUS Master/Slave Port
- **USB:** USB 2.0 full speed host


- **Electrical**

- **Operating Voltage:** 6 – 36 VDC, reverse polarity protected
 - Min current draw @ 24V: 0.202A
 - Max current draw @ 24V: 0.297A
 - Min current draw @ 12V: 0.318A
 - Max current draw @ 12V: 0.438A

- **Inputs:**
 - (1) Analog 0–5 VDC, 4-20 mA, resistive, 10-bit resolution
 - (1) Discrete digital, active-high
- **Outputs:**
 - (2) 500 mA switched low-side

- **Environmental**

- **Operating Temperature:** -30°C to +85°C (-22°F to +185°F)
- **Storage Temperature:** -40°C to +85°C (-40°F to +185°F)
- **Protection:** IP66 and IP67, front and back, for outdoor use
- **Vibration:** Random vibration 8.17 Grms (5–2000Hz), 3 axes
- **Shock:** ±50G in 3 axes
- **EMC/EMI:** SAE J1113, ISO 13766, CE per 2014/30/EU

 **WARNING:** This product may expose you to chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information about California Proposition 65, go to www.P65Warnings.ca.gov or visit our [California Proposition 65 page](#).