

UPC-V312-D525

12.1" Aluminum Rugged Panel PC



Features

- Fully IP 65 compliant with fanless Intel® Atom™ D525 1.8GHz dual-core processor
- 12.1" 600 nits 1024 x 768 LCD with LED backlight
- TWIN-DC input, 9V ~ 36V and 10.5V ~ 36V, switch automatically
- Dual-band 2.4/5GHz Wi-Fi 802.11 a/b/g/n 3T3R MIMO design
- Reserved space for 3.75G / HSPA USB module
- Optional GPS receiver
- Optional EM or Mifare RFID reader
- Optional Bluetooth module
- Built-in 2-megapixel webcam with AF, AE and AWB capabilities
- CAN-bus interface with isolation
- Robust die-casting aluminum chassis



Specifications

| Model Name | | UPC-V312-D525-R13 |
|------------------------|---------------------------------|---|
| Display | LCD Size | 12.1" |
| | Max Resolution | 1024(W) x 768(H) |
| | Brightness (cd/m ²) | 600 |
| | Contrast Ratio | 700:1 |
| | LCD Color | 16.2M |
| | Pixel Pitch (mm) (HxV) | 0.24(H) x 0.24(V) |
| | Viewing Angle (V/H) | 150° / 130° |
| | Backlight MTBF (hrs) | 50000 |
| Touch | Touch Screen | Resistive Type 5-Wire with RS-232 interface |
| | Touch Controller | DMC 9000 |
| Motherboard | SBC | UPCMB-V312-D525-R10 |
| | CPU | Intel® Atom™ D525 1.8GHz dual-core processor |
| | Chipset | Intel® ICH8M |
| | RAM | On-board 2GB DDR3 SO-DIMM (System Max. 2GB) |
| | Ethernet | Realtek RTL8111CP PCIe GbE controller |
| | Audio Codec | Realtek ALC888 audio codec |
| I/O Ports and Switches | | RS-422/485 (4-pin box header) RS-232 (DB-9 connector) CAN-bus (3-pin terminal block) GbE LAN (RJ-45 connector) 4 x USB connector Audio jack (Line-out, Mic) VGA port (DB-15 connector) DC-IN 1 (terminal block) / DC-IN 2 (DC jack) Reset button AT/ATX switch |
| Connectivity | Wireless | IEEE 802.11a/b/g/n 3T3R module (WIFI-RT5393-DB-R10) Telec certified |
| | Bluetooth | Bluetooth V2.0+EDR with USB interface (optional) |
| | 3G | Reserved USB connector (Optional) |
| Driver Bay | SSD | CF Type II / mSATA (SATA2 Signal) |
| Physical | Front Panel Construction | Aluminum Die-Casting |
| | Chassis Construction | Extruded Aluminum Alloy |
| | Mounting | VESA 100mm x 100mm and 75mm x 75mm with M8 screws |
| | Front Panel Color | Orange (Pantone 151C) |
| | Dimensions (WxHxD) (mm) | 338.5 x 276.25 x 62.86 |
| | Cut Out Dimensions (WxH) (mm) | 338.5 x 276.25 |
| Net / Gross Weight | | 4.5 kg/ 6.8 kg |
| Expansion Slot | | PCIe Mini slot for Wi-Fi PCIe Mini slot |
| System Cooling | | Fanless |
| Environment | Operating Temperature | -20°C~60°C |
| | Storage Temperature | -40°C~85°C |
| | Vibration | MIL-STD-810F 514.5C-2 (with CF card or SSD) |
| | Shock | Half-sine wave shock 3G; 11ms; 3 shocks per axis |
| | IP Level | Full IP 65 |
| | Safety & EMC | CE / FCC |
| Power | Adapter | 65W power adapter (Meet PSE) (Power adapter supports operating temperature 0°C ~ 40°C) Input: 90VAC~264VAC, 50/60Hz; Output: 19V DC |
| | Requirement | Power 1: 9 (+/-0.3)~36V Power 2: 10.5 (+/-0.3)~36V |
| | Consumption | 52W |

Ordering Information

| Part No. | Description |
|------------------------|---|
| UPC-V312-D525/R/2G-R13 | 12.1" 600cd/m ² XGA fanless full IP 65 panel PC with Intel® Atom™ D525 dual core 1.8GHz,802.11a/b/g/n wireless module, resistive touch screen, 2-megapixel camera, microphone, 2GB DDR3 RAM, R13 |

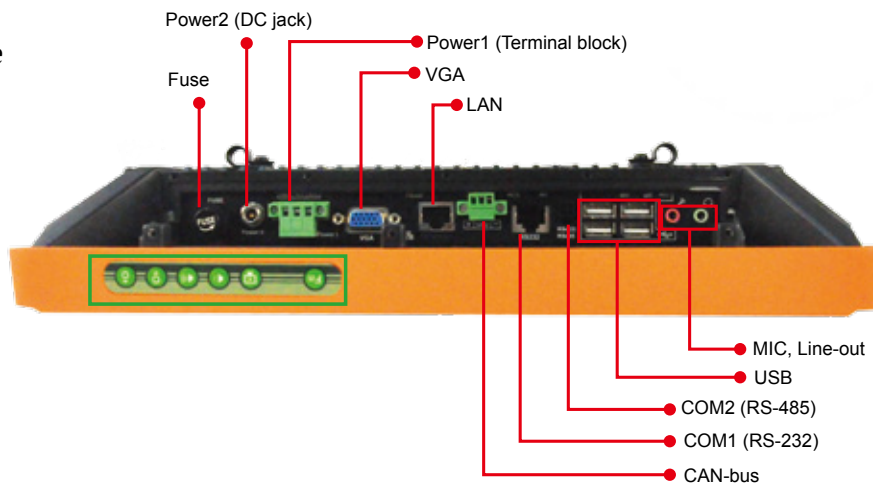
Options

| Item | P/N |
|----------------------------------|--|
| ARM | ARM-11-RS/ARM-31-RS |
| Wall Mounting Kit | AFLWK-19B/ AFLWK-12 |
| Stand | STAND-A19-RS/STAND-A21-R10/STAND-210-R11 |
| EM RFID Kit | UPC-EM-RFID-KIT01-R10 |
| MIFARE RFID Kit | UPC-MF-RFID-KIT01-R11 |
| OS: Win CE 6.0 (128MB CF Card) | UPCCF-V312-D525-CE060-128M-R10 |
| OS: Win XPE (4GB CF Card) | UPCCF-V312-D525-XPE-4G-R10 |
| OS: Win 7 Embedded (4GB CF Card) | UPCCF-V312-D525-WES7E-4G-R10 |

Packing List

| Item | P/N | Q'ty |
|--------------------------------|---------------------|------|
| Utility CD | 7B000-000741-RS | 1 |
| One Key Recovery CD | | 1 |
| IR Remote Controller | 7Z000-SLPCB005-RS | 1 |
| RJ-45 to DB-9 COM Port Cable | 32005-000200-200-RS | 1 |
| M8 Screw | 44325-080081-RS | 8 |
| M4 Screw | 44005-040082-RS | 8 |
| Mounting Bracket | 41003-0382C2-00-RS | 2 |
| Screw Driver | 45019-001004-00 | 1 |
| Power Adapter | 63040-010065-200-RS | 1 |
| Power Cord (European Standard) | 32702-000401-100-RS | 1 |
| RS-422 Cable | 32205-002400-100-RS | 1 |
| Power Transfer Cord | 32702-000300-100-RS | 1 |
| M8 to M4 Screw | 44300-040061-RS | 8 |

I/O Interface



UPC-V312 Dimensions (Unit: mm)

