**ECW-281B/B2 Series**

## *Fanless Embedded System with*

***Intel® Atom™ Dual-core D525 CPU***

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COM2 for

ECW-281B Series

# *Features*

* Fanless system with

» 1.8 GHz Intel® Atom™ D525 dual-core CPU

* Supports four USB 2.0 ports and six COM ports
* Dual GbE LAN ideal for high-speed network applications
* Supports CompactFlash®, 2.5” SATA HDD and SSD storage devices
* 12 V DC and 9 V DC - 36 V DC power input models available
* Supports dual VGA display (B2 model only)

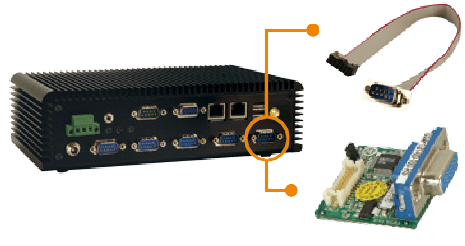
# *Specifications*

2nd VGA for

ECW-281B2 Series

Fanless

# *Dual Display*

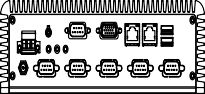


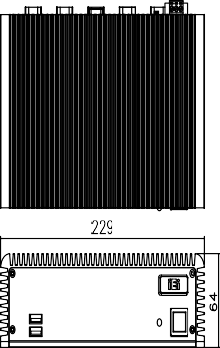
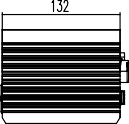
PCIe Mini Expansion

**RS-232 Cable** Installed in ECW-281B series

***Dimensions (Unit: mm)***

|  |  |  |
| --- | --- | --- |
| **Model Name** | | **ECW-281B-D525 (ECW-281B2-D525)** |
| **Chassis** | **Color** | Black |
| **Dimensions**  **(WxDxH) (mm)** | 229 x 132 x 64 |
| **System Fan** | Fanless |
| **Chassis**  **Construction** | Aluminum alloy with heavy duty metal |
| **Motherboard** | **Motherboard**  **Model** | WAFER-PV-D5252 |
| **SBC Size (mm)** | 3.5", 146 x 102 |
| **CPU** | IIntel® Atom™ D525 dual-core 1.8GHz/1MB L2 cache |
| **Chipset** | Intel® ICH8M |
| **System**  **Memory** | 1 GB DDR3 204-pin SO-DIMM memory pre-installed |
| **Storage** | **Hard Drive** | 1 x 2.5" SATA HDD space |
| **CF Card/CFast** | 1 |
| **I/O Interfaces** | **USB 2.0** | 4 |
| **Ethernet** | 2 x Realtek 8111E PCIe GbE |
| **COM Port** | 6 x RS-232 ports for ECW-281B-D525  (COM2: Default RS-232, RS422/485 optional) 5 x RS-232 ports for ECW-281B2-D525 |
| **Display** | 1 (2) x VGA |
| **Resolution** | VGA: Up to 2048 x 1536@60Hz  (VGA: Up to 1024 x 768@60MHz) |
| **Audio** | 1 x Speaker out |
| **Expansions** | **PCIe Mini** | 1 x PCIe Mini card slot |
| **Power** | **Power Input** | DC jack: 12 V DC  3-pin terminal: 9 V~36 V DC |
| **Power Consumption** | [12V@1.79A](mailto:12V@1.79A)  (Intel® Atom™ D525 1.8GHz CPU with 1GB DDR3  memory) |
| **Reliability** | **Mounting** | DIN mount, VESA 75 mount, wall mount |
| **Operating**  **Temperature** | -20°C ~ 65°C with CompactFlash®/SSD  -10°C ~ 50°C with HDD |
| **Operating**  **Shock** | Half-sine wave 3G, 11ms 3 shocks per axis |
| **Operating**  **Vibration** | \* MIL-STD-810F 514.5C-1  MIL-STD-810F 514.5C-2 |
| **Weight (Net/**  **Gross)** | 2.1 kg/3.9 kg |



# *Ordering Information*

### LVDS-VGA-R10

**Installed in ECW-281B2 series**

» Provides 2nd VGA option for dual VGA display

# *Packing List*

|  |
| --- |
| 1 x Power cord only for 12V |
| 1 x Screw set |
| 1 x 12V 60W power adapter  (with PSE/ErP certified, only for 12V) |
| 1 x Wall mount bracket |
| 1 x HDD thermal pad |



DK-84MB



ECN-281B/B2 Series-2018-V11



***Industrial Computer Chassis***

\*Systems with hard drive meet MIL-STD-810F 514.5C-1 specifications. SSD/CF systems meet MIL-STD-810F 514.5C-2 specifications.

|  |  |  |  |
| --- | --- | --- | --- |
| **Part No.** | | | **Description** |
| **D525** | **12 V DC**  **Input** | **ECW-281B-R12/ D525/1GB** | Fanless embedded system with WAFER-PV-D5252, with dual-core Intel® Atom™ D525 1.8GHz CPU, with 6 serial ports, with 1 GB DDR3 memory, 12  V DC in, 60W power adapter with ErP and PSE  certificates, black, RoHS |
| **ECW-281B2-R12/ D525/1GB** | Fanless embedded system with WAFER-PV-D5252, with dual-core Intel® Atom™ D525 1.8GHz CPU, with dual VGA display and 5 serial ports, with 1 GB DDR3 memory, 12 V DC in, 60W power adapter with  ErP and PSE certificates, black, RoHS |
| **9 V ~36 V**  **DC Input** | **ECW- 281BWD-R11/ D525/1GB** | Fanless embedded system with WAFER-PV-D5252, with dual-core Intel® Atom™ D525 1.8GHz CPU, with 6 serial ports, with 1 GB DDR3 memory, 9 V-36  V DC in, w/o power adapter, black, RoHS |
| **ECW- 281B2WD-R11/ D525/1GB**  **32205-003200-**  **100-RS** | Fanless embedded system with WAFER-PV-D5252, with dual-core Intel® Atom™ D525 1.8GHz CPU, with dual VGA display and 5 serial ports, with 1 GB DDR3 memory, 9 V-36 V DC in, w/o power adapter, black, RoHS  Flat cable, RS-232/422/485, RS-422/485 cable, 2, 100mm, 28AWG, (A) D-sub 9-pin male, (B) DU pont 2x7P P=2.0, female, IDIOT-PROOF, 32200-074600-  RS substitute, hwalong, RoHS |
|  | |

# *Spec Comparison Table*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Model** | **ECW-281B** | **ECW-281B2** | **ECW-281BWD** | **ECW-281B2WD** |
| **Main board** | WAFER-  PV-D5252 | WAFER-  PV-D5252 | WAFER-  PV-D5252 | WAFER-  PV-D5252 |
| **COM port** | 6 | 5 | 6 | 5 |
| **VGA display** | 1 | 2 | 1 | 2 |
| **Power input** | 12 V DC in | 12 V DC in | 9 V~36 V DC in | 9 V~36 V DC in |
| **Adapter** | 60W | 60W | N/A | N/A |