

phyBOARD-Wega-AM335x

1) QuickStart Guide

Get your phyBOARD-Wega powered up and connected in just a few steps.

1. Check the kit contents (see overview on the right hand side)
2. Have your connection cables at hand: You need an RS232 cable (one-to-one) and an Ethernet cross-over cable. Phytec offers an accessory kit which includes these cables.
3. Power-up phyBOARD-Wega. **For the 24V-kit-version (A):** Connect the 2-pin-Phoenix-connector (part of the kit delivery) to a 12-24V (+/-10%) DC power supply.
For the 5V-kit-version (B): Connect the 2-pin-Phoenix-connector (part of the kit delivery) to a 5V (+/-5%) DC power supply. In both cases mind the polarity (see picture A/B)! If you have bought the optional power supply with your Kit, it comes already with the 2-pin-connector wired.
4. Turn your power supply on: Plug the 2-pin-Phoenix connector into the green jack of your Kit. The green Power LED (D58) will light up.

Please note: only the 24V-kit-version comes with the power adapter board.



Kit Contents

phyBOARD-Wega-AM335x

2-pin-Phoenix

Live-DVD

Eval Module (PEB-EVAL-01)



RS-232 and CAN Adapter

HDMI Adapter (PEB-AV-01)



Optional Accessories

Power Module 12-24V (PEB-POW-01)



Additional Equipment required

Wall Adapter 5 V or 24 V



RS-232 Cable



Ethernet Cable

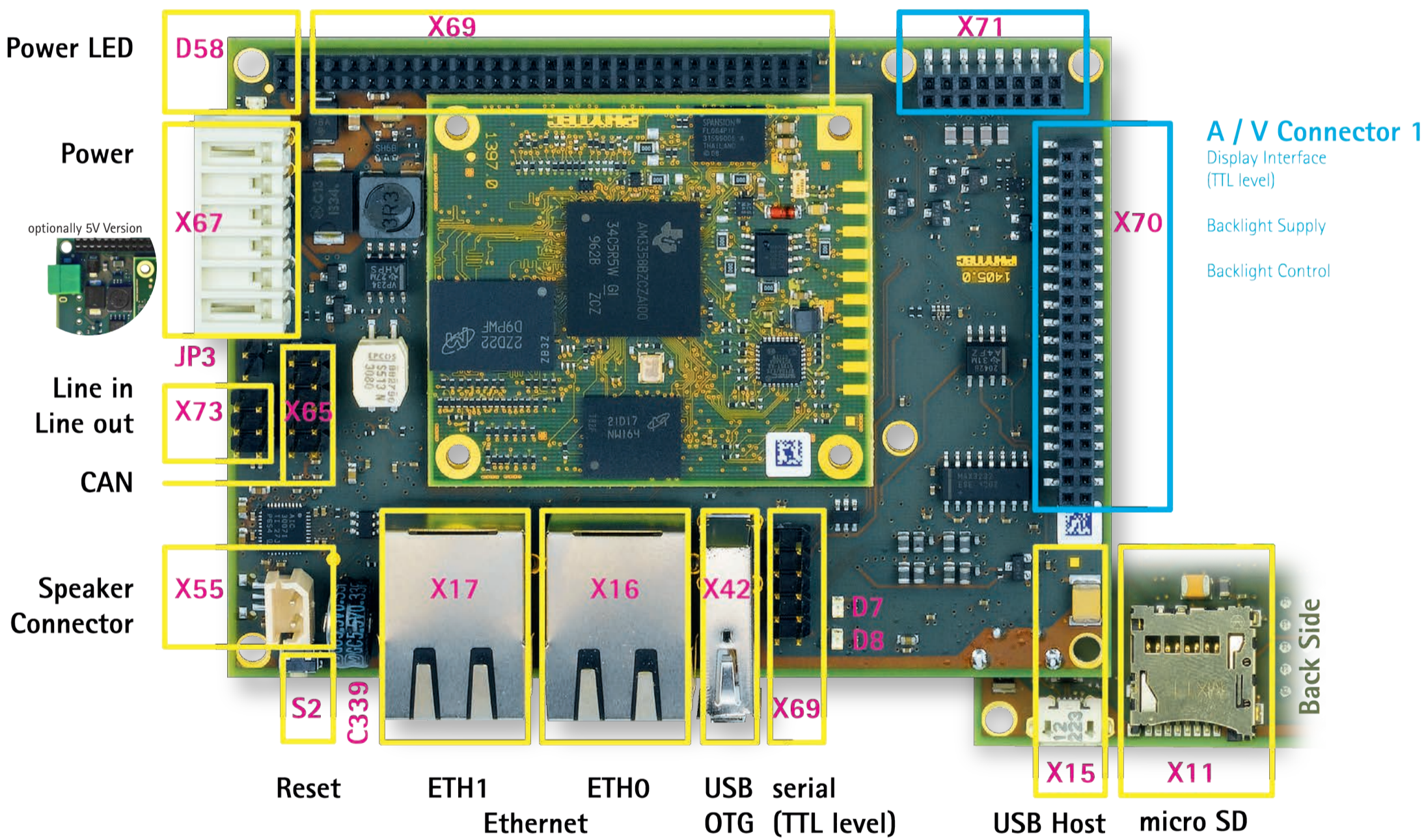


Expansion Connector

3x serial (TTL level), I²C, SPI, USB Host, 4x GPIO
4x analog in, Control, MMC

A / V Connector 2

I²S, Touch, I²C, Control



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L-791e

Quick Start Guide

2) Starting the Live DVD

1. Verify the boot priorities of your PC-system to support booting from DVD.
2. Insert the LiveDVD (part of the kit delivery) and restart your PC-system. The install / welcome-screen, shown on the right hand side, appears (A)
3. Choose your desired language
4. Click on **Try PHYLiveDVD**. The desktop from Ubuntu appears. (B)

Now you are ready to connect your PC with the phyBOARD-Wega.

3) Getting Connected

Serial connection

1. Connect one end of the serial cable to the DB9 connector on the Eval Module (PEB-EVAL-01).
2. Connect the other end to the first serial interface of your PC (or to an USB-to-DB9-dongle, connected to your host).
3. Click the **Microcom_ttyS0 icon (C)** on the Ubuntu desktop (for direct serial interface connection) or click the **Microcom_ttyUSB0** if you are using an USB-to-DB9-dongle.
4. Click the reset button (S2) on the Wega board (or power off-and-on the Wega board).

A serial console has been started from your LiveDVD. You should see a boot message and the login-prompt on this console. Congratulations! (D)

5. Use "root" as the log-in-name on the serial console (and press enter).
6. As a good example (and helpful for understanding the next step) you might enter the command ifconfig. This shows you especially the configuration of the two Ethernet interfaces on the Wega module. (E)

Ethernet connection

We recommend disconnecting your host-PC from any other network, because a peer-to-peer connection from your PC to the Wega module will be established.

1. Connect your preferred Ethernet-interface on your PC with **ETH0 (X16)** on the Wega module using the Ethernet-cross-over cable.
2. Configure the IP-settings on your host platform in Ubuntu:
 - In the **Unity-panel** (left side of your desktop) click on the **Dash Home icon (F)**
 - A new windows opens; enter **System Settings** in the search field (you will see the corresponding icon showing up already during typing of the search string).
 - Open **System Settings (G)** and Click on the **Network icon**
 - Select the physical interface to which you have connected the Ethernet (H) cable (if you have more than one network in the list) and click on **Options**
 - Select the **IPv4Settings tab (I)** and choose **Manual (K)** in the **Method** drop down box
 - Click **Add (L)** and enter the IP address **192.168.3.10**, **255.255.255.0** as subnet mask and **192.168.3.10** as Gateway.
 - At last click on **Save (M)** to save this connection settings and close the windows.

You are now ready to test the Ethernet network connection

3. Click on the **Telnet for Target icon (N)** on your desktop. A console window will open and you will see the login prompt (Remember: login-name is "root"). (O) Congratulations.

Miscellaneous

Concerning software support for the HDMI module, please read the appropriate FAQ-entries on the PHYTEC-web.

Your possible next steps

- Read our in-depth documentation provided on the DVD
- Check out the FAQ pages on the PHYTEC web
- Contact our support team if you have any questions getting Wega up and running

Enjoy!

