

Industrial HMI “phyBOARD – WEGA” ARM Single Board Computer



What is phyBOARD WEGA?

PHYTEC brings phyBOARD-WEGA as ready solution for INDUSTRIAL HMI, an ideal Single Board Computer based on TI AM335x (ARM Cortex-A8) for different Automation and Display applications. With minimal efforts, you can replace legacy display with high resolution display like - HDMI, VGA, LVDS or RGB with a scalable display sizes along with audio support as well. You can also avail the integrated solutions for WiFi/BT, ZigBee, GSM, GPS and various sensors, ModBus protocol etc.

PhyBoard WEGA Features

SOM

- PhyCORE-AM335x
- ARM® Cortex™-A8 upto 1GHz
- 256 MB DDR3 RAM (Max 1GB)
- 128 MB NAND (Max 2GB)
- 4 KB EEPROM
- 8 MB NOR FLASH (optional)

OnBoard Devices

- 1x USB Host
- 1x USB OTG
- 2x 10/100 Ethernet
- Micro SD Card

Display Interface

- 24bpp TTL

Communication Interfaces

- 6 x UART's
- 3 x I²C
- 2 x SPI
- 1 x CAN

Expansion Connectors*

- 1xADC(12 Bit, 8 Channel)
- GPIOs
- JTAG
- HDMI

General

- Form Factor: Pico-ITX(100 x 72mm)
- Power: 5V DC

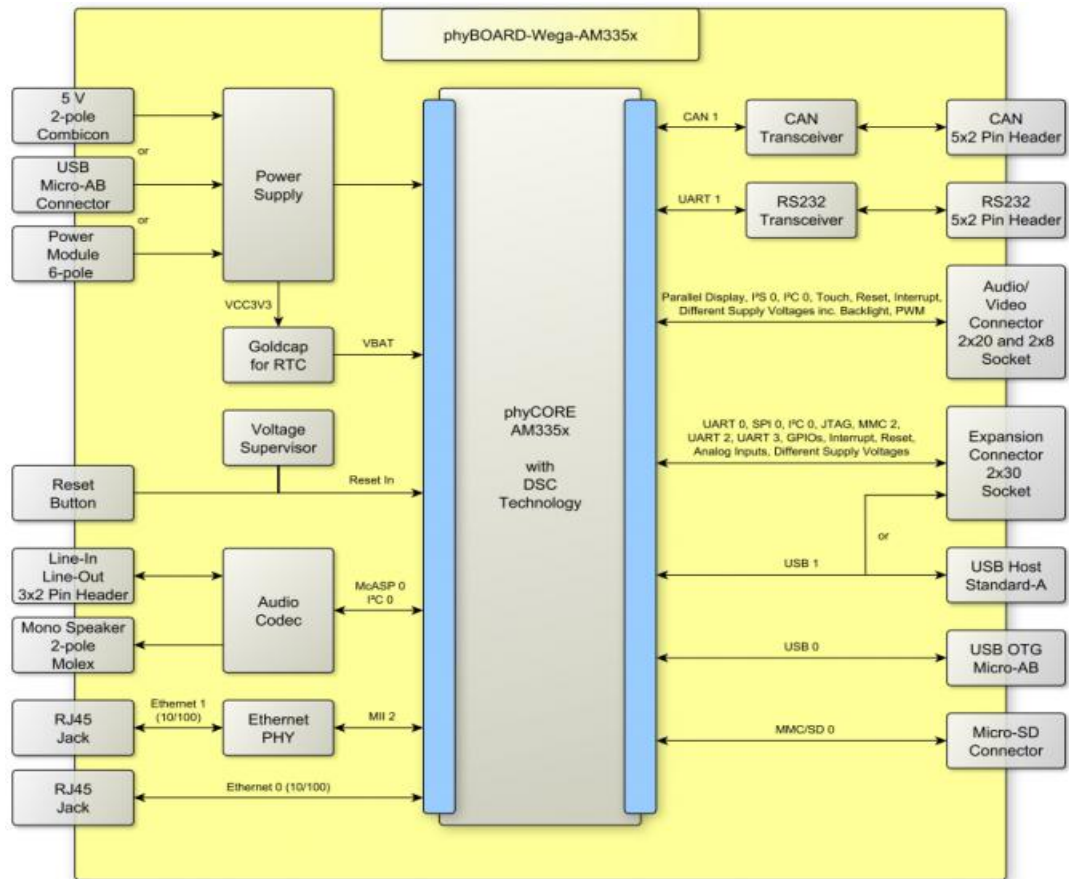
Note*: All the Pins in expansion Connector are multiplexed

Application:

PHYTEC SOMs have been deployed in thousands of systems across a wide variety of industrial verticals like:

- Building Automation
- Green Computing
- Medical equipment
- Security
- High-tech farming
- Industrial Automation
- Smart energy system
- Military and Aerospace
- Fitness equipment
- TMI and Transportation

Block Diagram:



Documentation & Software

- Hardware Manual
- Software Manual
- Quick Start Guide

Optional Accessories / Add-ons

- Accessories (Power Adapter, Serial Cable, Ethernet Cable, OTG Cable, Patch Card)
- LCD with touch 3.5"/4.3"/7"
- GPS/GPRS Module
- Wi-Fi / BT
- VGA
- HDMI
- RS 485 Break out Board

Package Contents

- phyBOARD WEGA AM335x
- DVD (includes Documents & Board Support Package)

BSP Sources

- Linux
- Android
- Windows CE7
- QT

Support

- Wiki
- Forum
- Community
- Premium Support