

# Industrial HMI “phyBOARD-WEGA-AM335x” 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)

#### On Board Devices

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

#### Display Interface

- 24bpp TTL

### Communication Interfaces

- 6 x UARTs
- 3 x I<sup>2</sup>C
- 2 x SPI
- 1 x CAN

#### Expansion Connectors\*

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

#### General

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

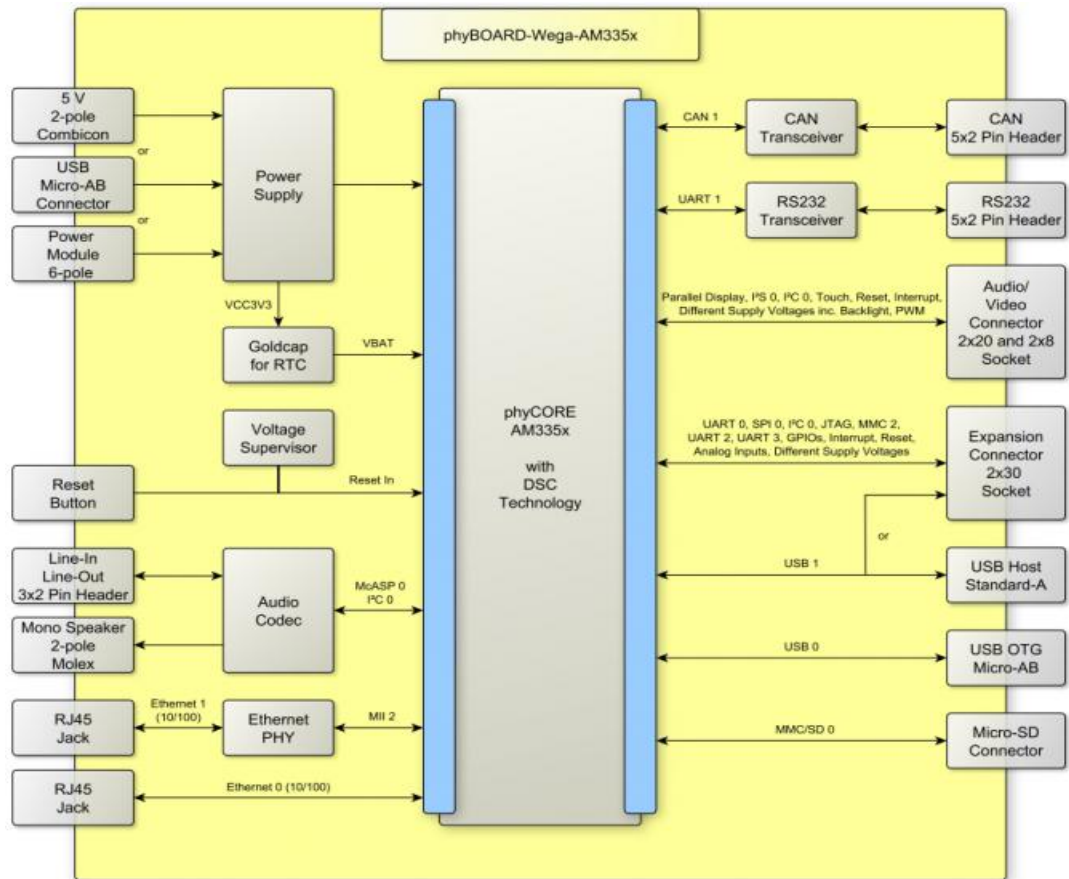
Note\*: All the Pins in expansion Connector are multiplexed

## 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