PBA-C-07
phyBOARD Wega-AM335X 2-Port GBit Ethernet

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### Project Overview

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### Operating Ratings
- **Operating Voltage:** 5V +/- 5%

### Size
- 150mm x 72mm x 40mm
phyCORE AM335x connectors

Optional Connector

Primary Connector

300 mA of 1.8V from SOM

phyCORE AM335x socket
Backup
Switch between Boot mode 1 and Boot mode 2:

- Boot mode 1 (S4=OFF): SYSBOOT[4:0]=10011b: NAND, NANDI2C, MMC0, UART
- Boot mode 2 (S4=ON): SYSBOOT[4:0]=10111b: MMC0, SPI0, UART0, USB
Audio Codec
Ethernet0 10/100/1000Mbit

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**Diagram Details**

- **Components and Connections**
  - GND: Ground
  - VCC3V3: 3.3V Power Supply
  - Shield_ETH: Shielding for Ethernet Connection
  - DA+, DA-, DB+, DB-, DC+, DC-, DD+, DD-: Differential Signal Connections
  - TCT1, TCT2, TCT3, TCT4: Connector Terminals
  - MCT1, MCT2, MCT3, MCT4: Connector Terminals
  - LED1_PHYAD0_ETH0, LED2_PHYAD1_ETH0: LEDs
  - RJ45 + LEDS: Ethernet RJ45 Connector

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**Technical Specifications**

- Ethernet 10/100/1000 Base-T
- Green, Yellow indicators

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**Notes**

- This diagram represents the Ethernet connection specifications for PHYTEC Messtechnik GmbH, Robert-Koch-Strasse 39, D-55139 Mainz.
- The diagram includes various connectors and signal levels, with specific references to GND, VCC3V3, and differential signal pairs (DA+, DA-, DB+, DB-).
- Details like the shielded connections (Shield_ETH) and ground (GND) are highlighted for clear understanding.
SD0 Card

- VCC3V3
- GND
- 6.3V
- 10μF
- C55
- 16V
- 100nF
- C49
- SD0 Card
- DAT2
- DAT3
- CMD
- VCC
- CLK
- DAT1
- DAT0
- SW2
- SW1
- GND1
- GND2
- GND3
- GND4
- GND
- microSD
- 1 2 3 4 5 8 7 9 11 12 13
- 6
- PJS008-2130-0
- X11
- GND
- GND
- GND
- VCC3V3
- X_nSD0_CD
- X_SD0_CMD
- X_SD0_CLK
- X_SD0_D0
- X_SD0_D1
- X_SD0_D2
- X_SD0_D3
- VCC3V3
- R425
- 10K
Expansion connector
A/V Connector
EMC Capacitors