SoM-215GS

Features

- **TI DP83640 IEEE 1588 v2 PTP Real Time PHY**
- **Ultra compact formfactor with 480x272 LCD**
- **EMAC OE Linux, Realtime extensions**
- **2x serial RS232 ports and 1x RS232/485 port**
- **32x SoM Specific lines with JTAG**
- **Linux with PTP instructions**
- **Resistive Touchscreen interface**
- **Battery for nonvolatile RAM and Real Time Clock**

Specifications (Actual I/O Availability is SoM Dependent)

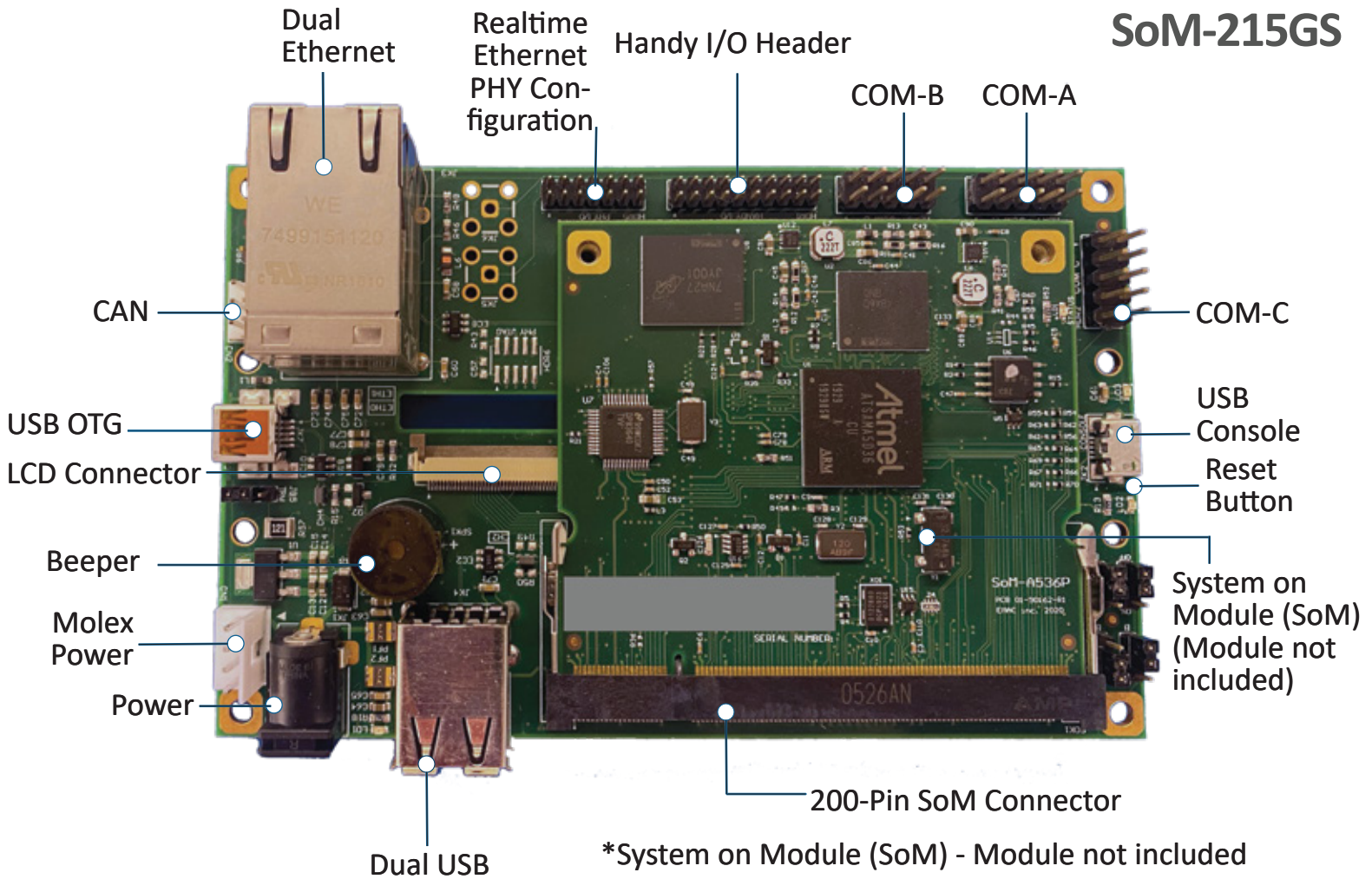|	
Compatibility	EMAC 200-pin SODIMM socket
Memory	1x MicroSD Flash Card Socket
I/O	26x SoM Specific I/O lines & JTAG
	1x I2S Audio Port
	3x Serial Ports (2x serial RS232 Ports & 1x RS232/485 Port)
	1x 10/100 BaseT Ethernet with On-Board RJ-45
	2x USB 2.0 Hosts (with access to an additional Host Port)
	Battery for Real Time Clock
	Reset Button
	1x Audio Beeper
	1x SPI Port
	Timer/Counters & Pulse Width Modulation (PWM)
	1x I2C Hardware Port
Analog	4x A/D Channels
Video	4.3" Graphic LCD Interface for TFT WQVGA (400 x 272)
	Durability - Over one million touches
	Luminance: 400 (cd/m^2)
	Backlight Brightness Control
	1x 4-wire Resistive Touch Screen Interface
Dimensions	4.8" ×3" x 1.57" (122mm × 76mm x 40mm) With LCD, 4.8 x 3.0 x 1.38 inches (122 x 76 x 35mm) without LCD
Power Req.	5V DC Including SOM, USB & LCD
	Typical Running Current Consumption 1.0A
	(Note: up to 1.0A additional is required if USB Host is providing power up to to 3x USB devices)
Environment	0° to 60° C Operating Temperature
	90% Upper Operating Humidity

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	1x Audio Beeper
	1x SPI Port
	Timer/Counters & Pulse Width Modulation (PWM)
	1x I2C Hardware Port
Analog	4x A/D Channels
Video	4.3" Graphic LCD Interface for TFT WQVGA (400 x 272)
	Durability - Over one million touches
	Luminance: 400 (cd/m^2)
	Backlight Brightness Control
	1x 4-wire Resistive Touch Screen Interface
Dimensions	4.8" ×3" (121mm × 76mm)
Power Req.	5V DC Including SOM, USB & LCD
	Typical Running Current Consumption 1.0A
	(Note: up to 1.0A additional is required if USB Host is providing power up to to 3x USB devices)
Environment	0° to 60° C Operating Temperature
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Carrier Board

SoM-215GS

Dual Ethernet
Realtime Ethernet PHY Configuration
Handy I/O Header
COM-B
COM-A
CAN
COM-C
USB OTG
USB Console
LCD Connector
Reset Button
Beeper
Molex Power
System on Module (SoM) (Module not included)
Power
200-Pin SoM Connector
Dual USB

*System on Module (SoM) - Module not included

Ordering Information

PRODUCT #	DESCRIPTION
SoM-215GS-000	SoM-215GS, 3x COM, 2x USB2, SOM PHY, 10/100 IEEE PTP LAN, NO LCD
SoM-215GS-002	SoM-215GS 3x COM, 2x USB2, SOM PHY, 10/100 IEEE1588 PTP LAN, 4.3" LCD and bracket (Open frame Panel PC)

Suggested SOM Module Options

SoM-A5D36-140	ARM A5 VID/GbE+Carrier PHY support for Dual LAN/USB/512MB RAM, 4GB eMMC, -40 to +85, RoHS
SOM-A536M-140	ARM A5 VID/ 10/100 Network PHY+Carrier PHY support for Dual LAN/USB/512MB RAM, 4GB eMMC, -40 to +85, RoH
SoM-A536P-140	ARM A5 VID/IEEE1588 10/100 Network PHY+Carrier PHY support for Dual LAN/USB/512MB RAM, 4GB eMMC, -40 to +85, RoHS

Development Kit Options

PRODUCT #	DESCRIPTION
DEV-SOM36-001R	4.3" Open Frame Panel PC w/ PTP & Touchscreen, SoM-215GS & SoM-A536P. Arm A5D36 536MHz, 512MB RAM, 4GB eMMC Flash, 3x COM,
DEV-SOM36-000R	PTP Development board, SoM-215GS & SoM-A536P. Arm A5D36 536MHz, 512MB RAM, 4GB eMMC Flash, 3x COM, 2x USB2, 2x 10/100 PTP

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