

## FEATURES

### MitySOM-AM57(F) Development Board

#### Supported Critical Link Modules

- MitySOM-AM57
- MitySOM-AM57F

#### Key Hardware

- TI AM57xx Processor
- Xilinx Artix-7 FPGA (AM57F Only)

#### Additional Hardware Included:

- Micro USB & Ethernet Cables
- AC to DC 12V 3.34A Adapter

#### Integrated +1.8V/+2.5V/+3.3V/+5V Power Supplies

#### Digital Interfaces:

- HDMI (1920x1080p, 60 fps)
- Audio Output and Line Input
- 2 x Gigabit Ethernet
- 2 x 10/100 MBit Ethernet (PRU)
- Board Information EEPROM
- Debug UART to USB Console
- 1 x USB 3.0 DRD Interface (USB-C)
- 4 x USB 2.0 Host (Type-A)
- 1 x SATA 3-Gbps
- Micro SD-Card Socket
- SOM I2C Power and Voltage Monitors

#### Expansion

- FMC Expansion Header (400-Pin)
  - I2C and Artix-7 FPGA IO
- 3 x 34 Pin 0.1" AM57x GPIO Headers
- External I2C Header
  - 1.8V and 3.3V levels



#### Software and Documentation:

- Linux Kernel (Based on TI Processor SDK)
- U-Boot (Based on TI Processor SDK)
- Yocto Filesystem (Based on TI Processor SDK)
- Linux and DSP Cross Development SDK
- Development Board Schematics
- Development Board Gerber Files
- Development Board BOM

## APPLICATIONS

- MitySOM-AM57(F) Evaluation
- Process Automation
- Factory Automation
- Industrial Automation
- Embedded Instrumentation
- Rich Displays
- Rapid Prototyping

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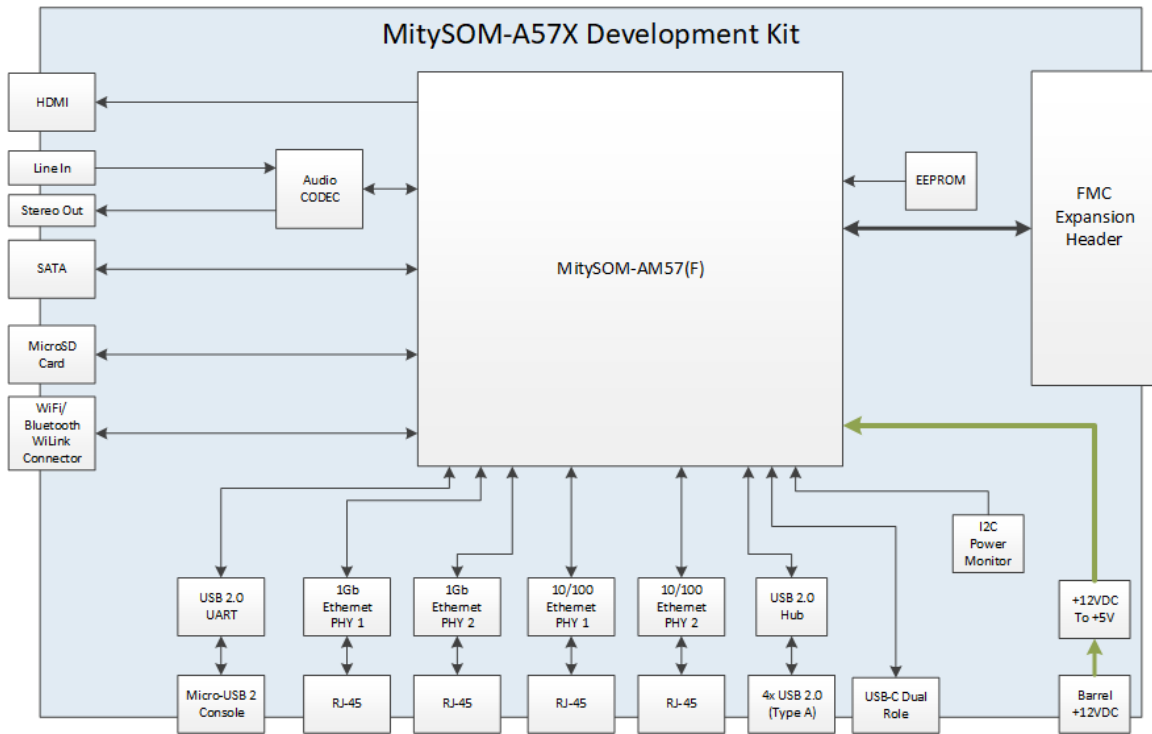
## DESCRIPTION

The MitySOM-AM57(F) Development Kit provides all the hardware and software support for system designers and developers to evaluate the Critical Link MitySOM-AM57(F) System on Module (SOM). The MitySOM-AM57(F) Development Kit comes complete with the MitySOM-AM57(F) module that meets your project's needs.

The MitySOM-AM57(F) Development Kit includes on-board dual 10/100/1000 MBit Ethernet, quad USB-2.0 Host ports, and one USB-C USB 3.0 Dual Role Device (DRD) port. A 400-pin FMC expansion port provides access to IO interfaces on the AM57x modules with a Artix-7 FPGA or additional Multi-Functional IO on AM57 modules. The additional triple 34-pin 0.1-inch headers provide access to GPIO and spare IO from AM57xx processor.

The High-Definition Multimedia Interface (HDMI) supports displays a resolution of up to 1920x1080 at 60Hz through a standard HDMI connector, video only. Multi-Media Card (MMC) interface supporting Micro Secure Digital (Micro SD) cards and an I/O Expansion connector for a WiLink 802.11b/g/n Wireless with Bluetooth module from Texas Instruments or a user-designed custom add-on card. All of these interfaces are powered from a single 12VDC input with onboard +1.8V/+2.5V/+3V/+5V power supplies.

A block diagram of the MitySOM-AM57(F) Development Kit is illustrated in Figure 1. Control of the on-board interface hardware and connected Expansion IO cards require proper configuration of the MitySOM-AM57(F) Module. While not required, it is strongly recommended that the MitySOM software development kit and supplied API be used to manage these interfaces.



**Figure 1: MitySOM-AM57(F) Development Kit Block Diagram**

Additional details about the AM57xx, available peripherals, and their features are provided in the datasheet at the TI website ([www.ti.com/AM57x](http://www.ti.com/AM57x)).

Additional details about the Artix-7 FPGA are provided in the datasheet at the Xilinx website (<https://www.xilinx.com/products/silicon-devices/fpga/artix-7.html>).

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## Feature Descriptions

### Debug UART to USB Interface Description

The on-board UART to USB Bridge, FTDI FT230XS-U, provides a serial interface at 115,200 baud 8N1. The USB serial interface, J16 – USB UART, is routed to the primary MitySOM-AM57(F) serial console port, UART3. It allows for general module debug and console interaction.

When connected to a Windows PC, no drivers are required as Windows Update is used to obtain the drivers.

### Audio Input/Output Description

Standard 3.5mm / 1/8<sup>th</sup> inch audio jacks are provided for both stereo audio output, P2, and line-in audio input, P3, from/to a TLV320AIC3104 32-bit audio CODEC connected to MCASP8 on the AM57xx processor on the MitySOM-AM57(F) module.

Linux Driver and API examples are available to support the audio functionality.

### USB 3.0 Interface Description

The USB 3.0 interface using a USB type C connector, J13 – USB 3.0, is configured as a dual role interface. It is connected to the USB1 port of the AM57xx processor of the MitySOM-AM57(F) module and is capable of supporting a maximum data bit rate of 5 Gbps and is also backward compatible with USB 2.0 devices. Linux drivers are available.

### 4-Port USB 2.0 Interface Description

A 4-port USB 2.0 Hub is connected to the USB2 interface of the AM57xx processor of the MitySOM-AM57(F) module. The interface is through two, J15 and J17, dual USB Type-A connectors configured in host mode. Linux drivers are available.

### MultiMedia Card (Micro SD) Interface Description

The onboard Micro MultiMedia Card (MMC) slot uses a Micro Secure Digital (uSD) connector J6 which supports SD Standard v3.01. It is compatible with standard (SD), SDHC (up to 32GB), and SDXC (Up to 2TB) cards. By default the MitySOM-AM57(F) Development Kit boots from this interface.

U-Boot configuration information and Linux drivers are available.

### Dual Gigabit Ethernet Interface Description

Dual Micrel KSZ9031 network PHYs on the Development Board are each capable of running at 10/100/1000Mbit including link auto-negotiation and RGMII/MDIO capability. A dual industry-standard RJ-45 connector, J8 – ETH\_Gb, is provided for external connections. These Ethernet interfaces are connected to the AM57xx processor and may be used to perform remote code download via U-Boot and FLASH upgrades on an attached MitySOM-AM57(F) module.

### **Dual 10/100 Mbit PRU Ethernet Interface Description**

The on-board 10/100 Mbit Ethernet interfaces feature Texas Instruments DP83822 network PHYs each capable of running at 10/100 Mbit including link auto-negotiation and MII/MDIO capability. A dual industry-standard RJ-45 connector, J9 – ETH\_10/100, is provided for external connection. These Ethernet interfaces are connected to the AM57xx processor's PRU2 on the MitySOM-AM57(F) module.

### **HDMI (Video Only) Interface Description**

A standard HDMI interface for external monitor connection, video only, with a maximum resolution of 1920x1080 is provided. Note that the Texas Instruments AM57x6 devices do not support HDMI.

### **SATA Interface Description**

A standard 7-pin SATA interface, J12 – SATA, is provided for external hard drive connections supporting the SATA standard v2.6. It supports up to SATA Gen 2, 3-Gbps, speeds, and is backward compatible with SATA Gen 1, 1.5-Gbps, devices.

Note that SATA Gen 3, 6-Gbps, devices can be utilized if they can support the slower SATA Gen 2 interface speed.

### **FMC Expansion Port Interface Description**

The FPGA Mezzanine Card (FMC) interface, J1, allows for the use of add-on cards that are designed for the Xilinx Artix-7 on the MitySOM-AM57(F) module. The FMC interface is compatible with Low Pin Count (LPC) FMC expansion cards and provides a subset of High Pin Count (HPC) signals.

It features 2 FPGA Transceiver lanes and 48 FPGA IO pairs (96 IO pins total). FPGA IO signal voltages for the MitySOM-AM57(F) module can be set to either +1.8V, +2.5V, or +3.3V based on the installation of JP4, JP5, or JP6 on the Development Board.

A number of “off the shelf” boards/kits are available from third parties that are compatible with this interface.

The MitySOM-AM57 non-FPGA modules routes additional multi-functional IO to the FMC connector from the AM57xx processor in place of the FPGA IO pairs.

### **3x 34-Pin Expansion Port Interface Descriptions**

Accessible on three 0.1-inch dual-row 34-pin headers, J5, J11, and J18, are 67 AM57xx direct IO signals at 1.8V logic levels, 4 Artix-7 FPGA signals, and +1.8V/GND connections. Multi-functional IO replace the FPGA signals on the MitySOM-AM57(F) modules.

### **WiFi/Bluetooth Expansion Interface Description**

The WiFi/Bluetooth expansion interface, J3, is designed to be directly compatible with the Texas Instruments WL1837MODCOM8I WiFi and Bluetooth expansion card. Linux drivers are available for the TI WL1837 expansion card.

This interface can also be used for a user-designed interface card and features a 4-bit SDIO interface, 2 UART interfaces, a PCM audio interface, and multiple GPIOs.

### **I2C5 Interface Description**

Exposed at the 10-pin connector J4 is the I2C5 interface from the AM57xx processor. Both +1.8V and +3.3V logic level connections for this interface are available on the connector as well as 1.8V and 3.3V power supply and ground connections.

Additionally, the I2C5 interface is connected to the following devices on the Development Kit; USB-C controller, Audio Codec, EEPROM, MitySOM-AM57(F) +5V current/power monitor, and Development Kit voltage monitor.

### **Baseboard User EEPROM**

A 256 Kbit EEPROM, U11, is available for user configuration information on the MitySOM-AM57(F) Development Board. This EEPROM is accessible over the I2C5 interface to the AM57xx processor.

### **Baseboard Power Supply Monitor**

A 4 channel ADC, U10, is installed on the Development Board to enable the monitoring of the +5V, +3.3V, +2.5V, and +1.8V power supplies. This ADC is accessible over the I2C5 interface to the AM57xx processor.

### **MitySOM-AM57(F) Current/Power Monitor**

A power/current monitor, U8, is installed in line with the +5V power to the MitySOM-AM57(F) module. Additionally, this device has a single channel ADC that can monitor the +12V power supply voltage on the Development Board. It is accessible over the I2C5 interface to the AM57xx processor.



## Module Configuration Jumpers

### Boot Configuration Jumper Description

The MitySOM-AM57(F) Development Board features a 2-pin jumper, JP8, which determines the search order of peripherals from the AM57xx processor for a valid boot image.

By default, the MitySOM-AM57(F) Development Kit boots initially from the SD card.

### FPGA IO Voltage Select Jumper

A set of 3 jumpers is provided on the MitySOM-AM57(F) Development Board to select the voltage level of the user-configurable FPGA IO; bank 34 and bank 15. The IO voltages available are +3.3V, +2.5V, and +1.8V. This only applies to the MitySOM-AM57F variants. The IO voltage for the non-FPGA module is +1.8V.

### PMIC Power Hold Jumper

The PMIC\_POWERHOLD signal from the MitySOM-AM57(F) is exposed on a 3-pin jumper on the MitySOM-AM57(F) Development Board. It controls the module's power state, on/off, from the Development Board.

This signal is designed to be left floating for the default mode of operation. A jumper can be installed for this signal to be pulled up to 1.8V at all times or pulled to GND at all times.

## ABSOLUTE MAXIMUM RATINGS

If Military/Aerospace specified cards are required, please contact the Critical Link Sales Office or unit Distributors for availability and specifications.

Maximum Supply Voltage	13.2 V
Storage Temperature Range	0 to 80C

## OPERATING CONDITIONS

Ambient Temperature Range	0 to 70C
Humidity	0 to 95% Non-condensing

## ELECTRICAL CHARACTERISTICS

Symbol	Parameter	Conditions	Typical	Limit	Units (Limits)
$I_{Max}$	12V Supply (included AC adapter)	Note 1		3.3	A
<b>Maximum Power Supply Output</b>					
$I_{Max}$	12.0V Supply <sup>2</sup> for external components	Note 2		1.0	A
$I_{Max}$	5.0 V Supply <sup>2</sup> for external components	Note 2		3.0	A
$I_{Max}$	3.3V Supply <sup>2</sup> for external components	Note 2		2.5	A
$I_{Max}$	2.5V Supply <sup>2</sup> for external components	Note 2		2.5	A
$I_{Max}$	1.8V Supply <sup>2</sup> for external components	Note 2		1.5	A
<b>Typical Power Usage<sup>3</sup></b>					
$V_s$	Supply Voltage	Note 3	12.0		V
$I_s$	Supply Current	Note 3	2.3		A

### Notes:

1. An alternative higher amperage AC/DC 12V adapter is available upon request. Contact Critical Link for details and ordering information.
2. The maximum current supplied to external components should be limited to the specified maximum for the 12.0V, 3.3V, 2.5V, and 1.8V supplies. Please note that for simultaneous power supply usage a larger 12V external power supply may be needed.
3. No external components attached, 100% ARM utilization, FPGA example loaded, 3.3V selected for FPGA IO, and Ethernet are enabled and active.

## ELECTRICAL INTERFACE DESCRIPTIONS

### MitySOM-AM57(F) Module Interface Connectors – J10 and J14

Each MitySOM-AM57(F) Development Kit includes a MitySOM-AM57 or MitySOM-AM57F module. The Development Board interfaces with the module through a 314-pin MXM connector, J10, and 100-pin Hirose connector, J14. Please see the MitySOM-AM57(F) Datasheet for complete pin-outs of these connectors.

### Input Power – P1

The MitySOM-AM57(F) Development Kit power interface, P1, requires a single +12Volt power supply. This input supplies power to the main +5V, +3.3V +2.5V, and +1.8V power supplies on the development board.

**Table 1: Input Power Interface Pin Description**

Signal	P1 Position
+12V	Center Pin
GND	Outer Ring

### Main Power Switch – S1

An input power switch is present on the Development Board, S1, which controls the power input, on or off, from P1.

### Debug UART to USB – J16

**Table 2: J16 Micro USB Connector Pin Assignments**

J16 Pin	J16 Signal	Type	Standard	Notes
1	VBUS	Power	-	
2	D-	I/O	USB 2.0	USB data minus line
3	D+	I/O	USB 2.0	USB data plus line
4	No Connect	-	-	
5	SHIELD	GND	-	

The FTDI FT230XS-U UART to USB controller on the Development Board is connected to the UART 3 interface of the AM57xx processor, as shown below:

**Table 3: USB Controller to UART Interface**

FTD230XS Signal	SOM Interface Signal	SOM Pin
TXD	DEBUG_UART3_RX	J10 – 279
RXD	DEBUG_UART3_TX	J10 - 281
RTS#	No Connect – 1.0k to GND resistor	No Connect
CTS#	No Connect – 1.0k to GND resistor	No Connect

## I2C5 Devices and Interfaces

The I2C5 interface from the MitySOM-AM57(F) AM57xx processor is used on the Development Board for onboard devices as well as available externally at both the FMC connector, J1, and the I2C5 header J4.

**Table 4: I2C5 SOM Pin Connections**

Module Pin	Signal Name	Note
J10 - 185	I2C5_SCL	4.7k ohm pull-up on development board
J10 - 207	I2C5_SDA	4.7k ohm pull-up on development board

The list below contains the corresponding devices on the I2C5 bus, device description, and addresses that are used on the Development Board:

**Table 5: I2C5 Device and Address Information**

Device	Device Description	Address
TLV320AIC3104IRHBR	Audio Input/Output Codec – U29	0x18
AD7995YRJZ-150RL7	Development Board +5V, +3.3V, +2.5V and +1.8V voltage monitor – U10	0x29
HD3SS3220RNHR	USB 3.0 Type-C Controller – U12	0x47
CAT24C256WI-GT3	Baseboard 256Kbit EEPROM – U11	0x50
LTC2945IMS#PBF	MitySOM-AM57(F) +5V current/power monitor – U8	0x6E
FMC Connector	FMC Connector – J1	N/A
I2C5 Connector	I2C5 Connector – J4	N/A

## Audio Input/Output – P2 & P3

The MitySOM-AM57(F) Development Board provides both audio input, line-in stereo L/R, and audio output, L/R stereo speaker, connections through audio codec TLV320AIC3104, U29. The codec is connected to the I2C5 bus please reference Table 5 for I2C5 address information.

Two 3.5mm/1/8” jacks, P2 for output and P3 for input, utilize the pin-outs shown below:

**Table 6: P2 Audio Output Pin Assignments**

P2 Pin	P2 Signal	Type	TLV320AIC U29 Pin	Notes
1 - Sleeve	GND	Power	N/A	Audio Ground
2 - Tip	Audio Out Left	O	27	Unbalanced audio output
3 - Ring	Audio Out Right	O	29	Unbalanced audio output
4 – Tip Switch	No Connect	NC	N/A	

**Table 7: P3 Audio Input Pin Assignments**



P3 Pin	P3 Signal	Type	TLV320AIC U29 Pin	Notes
1 - Sleeve	GND	Power	N/A	Audio Ground
2 - Tip	Line In Left Input	I	14	Line In – no amplification, MIC not supported
3 - Ring	Line In Right Input	I	16	Line In – no amplification, MIC not supported
4 – Tip Switch	No Connect	NC	N/A	



### USB 3.0 Type-C – J13

The MitySOM-AM57(F) Development Board features a USB Type-C connector to the USB 3.0 interface of the AM57xx processor, which is also backward compatible with USB 2.0 devices. An HD3SS3220 MUX, U12, allows for connection of the USB Type-C cable in either orientation and detection of the host/peripheral mode required by the connected cable using the USB-C CC pins. The MUX is connected to the I2C5 bus please reference Table 5 for I2C5 address information.

The USB Type-C interface cannot provide power to the MitySOM-AM57(F) Development Board however it can provide up to 2.8Amps at +5V on the VBUS connections of the USB-C.

The following table lists the interface pin-out for the USB Type-C connector, J13.

**Table 8: J13 USB Type-C Pin Out**

J13 Pin	J13 Signal	U12 MUX or SOM Pin	J13 Pin	J13 Signal	U12 MUX or SOM Pin
A1	GND	N/A	B12	GND	N/A
A2	TX1_P	U12 – Pin 16	B11	RX1_P	U12 – Pin 14
A3	TX1_N	U12 – Pin 17	B10	RX1_N	U12 – Pin 15
A4	VBUS	U12 – Pin 5	B9	VBUS	U12 – Pin 5
A5	CC1	U12 – Pin 2	B8	No Connect	N/A
A6	USB1_DATA_P	J14 – 46	B7	USB1_DATA_N	J14 – 44
A7	USB1_DATA_N	J14 – 44	B6	USB1_DATA_P	J14 – 46
A8	No Connect	N/A	B5	CC2	U12 – Pin 1
A9	VBUS	U12 – Pin 5	B4	VBUS	U12 – Pin 5
A10	RX2_N	U12 – Pin 18	B3	TX2_N	U12 – Pin 20
A11	RX2_P	U12 – Pin 19	B2	TX2_P	U12 – Pin 21
A12	GND	N/A	B1	GND	N/A

### 4 Port USB 2.0 Type-A – J15 & J17

The MitySOM-AM57(F) Development Board features a 4-port USB hub, TUSB4041IPAPR – U26, which is connected to the USB2 interface from the AM57xx processor. The 4 USB ports are exposed from the Development Board as two dual USB Type-A Host-only connectors, 5787617-1, J15 and J17.

This interface is a USB 2.0 interface and supports up to 480Mbps throughput speeds and is backward compatible with Full-speed and Low-speed devices.

Each port is capable of supplying a maximum of 1A of current at +5V and an overcurrent detection circuit is connected to each port individually.

The pinout for both J15 and J17 is included in the following table.

J15 Pin	J15 Signal	J15 Upper or Lower Port	J17 Pin	J17 Signal	J17 Upper or Lower Port
1	VBUS1	Lower	1	VBUS3	Lower
2	USB1_DM		2	USB3_DM	
3	USB1_DP		3	USB3_DP	
4	GND		4	GND	
5	VBUS2	Upper	5	VBUS4	Upper
6	USB2_DM		6	USB4_DM	
7	USB2_DP		7	USB4_DP	
8	GND		8	GND	

### MultiMedia Card (Micro SD) – J6

The MitySOM-AM57(F) Development Board provides a MMC v3.01 interface that uses a standard Micro Secure Digital (Micro SD) card slot for the physical interface. This is connected to the MMC1 interface of the AM57xx processor as follows:

**Table 9: J6 Micro SD Card Connector**

J6 Pin	J6 Signal	SOM Interface Signal	SOM Pin
1	DAT2	MMC1_DAT2	J10 – 171
2	CD/DAT3	MMC1_DAT3	J10 – 169
3	CMD	MMC1_CMD	J10 – 167
4	VDD	+3.3V	N/A
5	CLK	MMC1_CLK	J10 – 165
6	VSS	GND	N/A
7	DAT0	MMC1_DAT0	J10 – 175
8	DAT1	MMC1_DAT1	J10 – 173
9	Switch (B)	MMC1_SD_CD	J10 - 163
10	Switch(A)	GND	N/A

The write-protect feature for the Micro SD card can be enabled/disabled, when configured in the host OS, through the use of the jumper JP3 on the MitySOM-AM57(F) Development Board as follows:

**Table 10: Micro SD Card Write Protect**

Jumper - JP3	Write Protect Status
Installed	Enabled
Removed	Disabled

## Dual Gigabit Ethernet – J9A & J9B

The MitySOM-AM57(F) Development Board provides two RJ-45 connections, with link and activity LEDs, for dual Gigabit 10/100/1000 Ethernet from the AM57xx processor. These external connections follow the standard TIA/EIA-568B pin-out as shown in Table 11 below.

**Table 11: J9A & J9B Ethernet RJ45 Pin Assignments**

Pin	Signal	Type
1	TX_RX_A_P	I/O
2	TX_RX_A_N	I/O
3	TX_RX_B_P	I/O
4	TX_RX_C_P	I/O
5	TX_RX_C_N	I/O
6	TX_RX_B_N	I/O
7	TX_RX_D_P	I/O
8	TX_RX_D_N	I/O

The Ethernet PHY, Micrel KSZ9031, for each interface is located on the Development Board and will auto-negotiate to the speed of the device it is connected to. The Ethernet PHYs are connected to the module through the EMAC0 and EMAC1 interfaces of the AM57xx processor to the pins as shown in Table 12 below.

**Table 12: Ethernet PHY to EMAC0 and EMAC1 SOM Interfaces**

EMAC0 – J9A (Lower)		EMAC1 – J9B (Upper)	
PHY to SOM Interface Signal	SOM Pin	PHY to SOM Interface Signal	SOM Pin
R_EMAC0_RXD0	J10 – 120	R_EMAC1_RXD0	J10 – 156
R_EMAC0_RXD1	J10 – 118	R_EMAC1_RXD1	J10 – 154
R_EMAC0_RXD2	J10 – 116	R_EMAC1_RXD2	J10 – 152
R_EMAC0_RXD3	J10 – 114	R_EMAC1_RXD3	J10 – 150
R_EMAC0_RX_CLK	J10 – 124	R_EMAC1_RX_CLK	J10 – 160
R_EMAC0_RX_CTL	J10 – 122	R_EMAC1_RX_CTL	J10 – 158
R_EMAC0_TXD0	J10 – 100	R_EMAC1_TXD0	J10 – 136
R_EMAC0_TXD1	J10 – 102	R_EMAC1_TXD1	J10 – 138
R_EMAC0_TXD2	J10 – 104	R_EMAC1_TXD2	J10 – 140
R_EMAC0_TXD3	J10 – 106	R_EMAC1_TXD3	J10 – 142
R_EMAC0_TX_CLK	J10 – 108	R_EMAC1_TX_CLK	J10 – 144
R_EMAC0_TX_CTL	J10 – 110	R_EMAC1_TX_CTL	J10 – 146
MDIO_DATA	J10 – 159	MDIO_DATA	J10 – 159
MDIO_CLK	J10 – 161	MDIO_CLK	J10 – 161
R_EMAC0_RESETh	J10 – 157	R_EMAC1_RESETh	J10 – 278



## Dual 10/100 Mbit PRU Ethernet – J8

The MitySOM-AM57(F) Development Board provides two RJ-45 connections, with link and activity LEDs, for dual 10/100 Megabit Ethernet from the Second Programmable Real-time Unit (PRU2) of the AM57xx processor. These external connections follow the standard TIA/EIA-568B pin-out as shown in Table 11 below.

**Table 13: J8A & J8B Ethernet RJ45 Pin Assignments**

Pin	Signal	Type
1	TX_RX_A_P	I/O
2	TX_RX_A_N	I/O
3	TX_RX_B_P	I/O
4	No Connect	I/O
5	No Connect	I/O
6	TX_RX_B_N	I/O
7	No Connect	I/O
8	No Connect	I/O

The Ethernet PHY, DP83822, for each interface is located on the Development Board and will auto-negotiate to the speed of the device it is connected to. The Ethernet PHYs are connected to the module through the PR2 MII0 and PR2 MII1 interfaces of the AM57xx processor to the pins as shown in Table 12 below.

**Table 14: Ethernet PHY to PR2 MII0 and PR2 MII 1 SOM Interfaces**

PR2 MII0 – J8A (Lower)		PR2 MII1 – J8B (Upper)	
PHY to SOM Interface Signal	SOM Pin	PHY to SOM Interface Signal	SOM Pin
PR2_MII0_TXD3	J10 – 228	PR2_MII1_TXD3	J10 – 194
PR2_MII0_TXD2	J10 – 226	PR2_MII1_TXD2	J10 – 192
PR2_MII0_TXD1	J10 – 224	PR2_MII1_TXD1	J10 – 190
PR2_MII0_TXD0	J10 – 222	PR2_MII1_TXD0	J10 – 188
PR2_MII0_TXEN	J10 – 220	PR2_MII1_TXEN	J10 – 186
PR2_MII0_MT0_CLK	J10 – 218	PR2_MII1_MT1_CLK	J10 – 184
PR2_MII0_RXD3	J10 – 214	PR2_MII1_RXD3	J10 – 180
PR2_MII0_RXD2	J10 – 212	PR2_MII1_RXD2	J10 – 178
PR2_MII0_RXD1	J10 – 210	PR2_MII1_RXD1	J10 – 176
PR2_MII0_RXD0	J10 – 208	PR2_MII1_RXD0	J10 – 174
PR2_MII0_MR0_CLK	J10 – 198	PR2_MII1_MR1_CLK	J10 – 164
PR2_MII0_RXER	J10 – 204	PR2_MII1_RXER	J10 – 170
PR2_MII0_RXDV	J10 – 200	PR2_MII1_RXDV	J10 – 166
PR2_MII0_CRS	J10 – 202	PR2_MII1_CRS	J10 – 168
PR2_MII0_RXLINK	J10 – 216	PR2_MII1_RXLINK	J10 – 182
PR2_MII0_COL	J10 – 206	PR2_MII1_COL	J10 – 172
PRU2_MII0_INT*	J10 – 250	PRU2_MII1_INT*	J10 – 237
PRU2_MII0_RESETh	J10 – 248	PRU2_MII1_RESETh	J10 – 273
PR2_MDIO_MDCLK	J10 – 111	PR2_MDIO_MDCLK	J10 – 111
PR2_MDIO_DATA	J10 – 113	PR2_MDIO_DATA	J10 – 113

## HDMI (Video Only) – J2

The MitySOM-AM57(F) Development Board provides a 19-pin standard HDMI connector, J2, supporting video only, which is driven by the AM57xx processor. Supporting HDMI 1.4a, the MitySOM-AM57(F) can output up to a resolution of 1920x1080 pixels at 60Hz.

**Table 15: J2 Connector Pin Assignments**

J2 Pin	J2 Signal	Type	SOM Interface Signal	SOM Pin
1	TMDS Data2+	O	HDMI_TX2_P	J14 – 4
2	Shield	Power	GND	N/A
3	TMDS Data2-	O	HDMI_TX2_N	J14 – 6
4	TMDS Data1+	O	HDMI_TX1_P	J14 – 10
5	Shield	Power	GND	N/A
6	TMDS Data1-	O	HDMI_TX1_N	J14 – 12
7	TMDS Data0+	O	HDMI_TX0_P	J14 – 16
8	Shield	Power	GND	N/A
9	TMDS Data0-	O	HDMI_TX0_N	J14 – 18
10	TMDS Clock+	O	HDMI_CLK_P	J14 – 22
11	Shield	Power	GND	N/A
12	TMDS Clock-	O	HDMI_CLK_N	J14 – 24
13	CEC	IO	HDMI_CEC_A	J14 – 5
14	Reserved	-	No Connect	N/A
15	SCL	IO	HDMI_DDC_SCL	J14 – 7
16	SDA	IO	HDMI_DDC_SDA	J14 – 9
17	GND	Power	GND	N/A
18	+5.0V	Power	+5v0	N/A
19	Hot Plug Detect	O	HDMI_HPD_A	J14 - 3

## SATA – J12

Table 16 describes the pin-out of the SATA connector on the MitySOM-AM57(F) Development Board which is connected from the AM57xx processor through a SATA redriver.

**Table 16: J12 Pin Assignments**

Pin	Signal	SOM Pin	Type	Notes
1	GND	-	POWER	
2	CON_SATA_TX_P	J14 – 50	O	
3	CON_SATA_TX_N	J14 – 52	O	
4	GND	-	POWER	
5	CON_SATA_RX_N	J14 – 56	I	
6	CON_SATA_RX_P	J14 - 58	I	
7	GND	-	POWER	

Note: Any SATA device must be powered externally from the development board and care should be taken to ensure proper power supply grounding between devices.

### 3x 34-Pin Expansion Ports – J5, J11 & J18

The MitySOM-AM57(F) Development Kit provides three 34-pin general expansion connectors, J5, J11 & J18 which utilize standard dual-row 0.1-inch spaced headers, TSM-117-02-T-DV. The signals for each connector are listed in the following tables.

**Table 17: J5 Connector Pin Assignments**

Pin	Signal	SOM Pin	Type	Standard	Notes
1	+1.8V	N/A	Power		See Electrical Characteristics for maximum external current rating of +1.8V supply.
2	GND	N/A	Power		
3	+1.8V	N/A	Power		See Electrical Characteristics for maximum external current rating of +1.8V supply.
4	GND	N/A	Power		
5	GPIO1_29.P5	J10 - 187	AM57xx IO	1.8V	
6	EXT_WAKE	J10 - E4-4	AM57xx	1.8V	10.0k pull-down installed on module. Connected to AM57xx ball AC17.
7	GPIO1_14.G20	J10 - 189	AM57xx IO	1.8V	
8	GPIO2_1.P9	J10 - 183	AM57xx IO	1.8V	
9	GPIO7_23.C26	J10 - 201	AM57xx IO	1.8V	
10	GPIO2_0.N9	J10 - 181	AM57xx IO	1.8V	
11	GPIO7_8.F16	J10 - 199	AM57xx IO	1.8V	
12	GPIO1_30.N7	J10 - 215	AM57xx IO	1.8V	
13	GPIO1_31.R4	J10 - 217	AM57xx IO	1.8V	
14	GPIO5_5.J11	J10 - 213	AM57xx IO	1.8V	
15	GPIO1_28.R5	J10 - 219	AM57xx IO	1.8V	
16	GPIO5_4.G13	J10 - 211	AM57xx IO	1.8V	
17	GPIO4_20.B10	J10 - 267	AM57xx IO	1.8V	
18	GPIO7_15.B22	J10 - 229	AM57xx IO	1.8V	
19	GPIO4_19.D11	J10 - 269	AM57xx IO	1.8V	
20	GPIO4_10.E6	J10 - 261	AM57xx IO	1.8V	
21	GPIO3_28.E1	J10 - 243	AM57xx IO	1.8V	
22	GPIO4_9.F5	J10 - 259	AM57xx IO	1.8V	
23	GPIO4_4.E2	J10 - 245	AM57xx IO	1.8V	
24	GPIO2_9.K7	J10 - 147	AM57xx IO	1.8V	
25	GPIO4_12.F6	J10 - 263	AM57xx IO	1.8V	
26	GPIO2_10.M7	J10 - 149	AM57xx IO	1.8V	
27	GPIO4_0.G6	J10 - 265	AM57xx IO	1.8V	
28	No Connect	N/A	NC		
29	No Connect	N/A	NC		
30	No Connect	N/A	NC		
31	GND	N/A	Power		
32	GND	N/A	Power		
33	GND	N/A	Power		
34	GND	N/A	Power		

**Table 18: J11 Connector Pin Assignments**

Pin	Signal	SOM Pin	Type	Standard	Notes
1	+1.8V	N/A	Power		See Electrical Characteristics for maximum external current rating of +1.8V supply.
2	GND	N/A	Power		
3	+1.8V	N/A	Power		See Electrical Characteristics for maximum external current rating of +1.8V supply.
4	GND	N/A	Power		
5	GPIO4_23.E11	J10 – 271	AM57xx IO	1.8V	
6	GPIO7_7.A25	J10 – 272	AM57xx IO	1.8V	
7	GPIO4_1.F4	J10 – 241	AM57xx IO	1.8V	
8	GPIO2_2.P4	J10 – 179	AM57xx IO	1.8V	
9	GPIO1_15.G19	J10 – 191	AM57xx IO	1.8V	
10	GPIO5_19.Y1	J10 – 105	AM57xx IO	1.8V	
11	GPIO7_6.T7	J10 – 205	AM57xx IO	1.8V	
12	GPIO5_18.V2	J10 – 107	AM57xx IO	1.8V	
13	GPIO7_5.T6	J10 – 203	AM57xx IO	1.8V	
14	GPIO7_16.G17	J10 – 195	AM57xx IO	1.8V	
15	GPIO6_16.F21	J10 – 223	AM57xx IO	1.8V	
16	GPIO7_4.T9	J10 – 209	AM57xx IO	1.8V	
17	GPIO7_3.R6	J10 – 221	AM57xx IO	1.8V	
18	GPIO4_2.F3	J10 – 239	AM57xx IO	1.8V	
19	GPIO3_29.G2	J10 – 235	AM57xx IO	1.8V	
20	GPIO7_9.B25	J10 – 274	AM57xx IO	1.8V	
21	GPIO4_3.D1	J10 – 247	AM57xx IO	1.8V	
22	GPIO4_11.D3	J10 – 253	AM57xx IO	1.8V	
23	GPIO2_11.J5	J10 – 151	AM57xx IO	1.8V	
24	GPIO4_7.C1	J10 – 251	AM57xx IO	1.8V	
25	GPIO2_12.K6	J10 – 153	AM57xx IO	1.8V	
26	GPIO4_8.E4	J10 – 255	AM57xx IO	1.8V	
27	No Connect	N/A	NC		
28	GPIO7_14.A26	J10 – 276	AM57xx IO	1.8V	
29	No Connect	N/A	NC		
30	No Connect	N/A	NC		
31	GND	N/A	Power		
32	GND	N/A	Power		
33	GND	N/A	Power		
34	GND	N/A	Power		

**Table 19: J18 Connector Pin Assignments**

Pin	Signal	SOM Pin	Type	Standard	Notes
1	+1.8V	N/A	Power		See Electrical Characteristics for maximum external current rating of +1.8V supply.
2	GND	N/A	Power		
3	+1.8V	N/A	Power		See Electrical Characteristics for maximum external current rating of +1.8V supply.
4	GND	N/A	Power		
5	PR2_PRU1_GPO4.AA4	J14 – 33	AM57xx IO	1.8V	
6	PR2_PRU1_GPO1.AA3	J14 – 17	AM57xx IO	1.8V	
7	PR2_PRU1_GPO3.AB3	J14 - 35	AM57xx IO	1.8V	
8	PR2_PRU1_GPO2.AB9	J14 - 19	AM57xx IO	1.8V	
9	GPIO7_10.A24	J14 – 11	AM57xx IO	1.8V	
10	GPIO3_16.AF2	J14 – 63	AM57xx IO	1.8V	
11	GPIO2_30.AG8	J14 – 13	AM57xx IO	1.8V	
12	GPIO3_20.AF1	J14 – 65	AM57xx IO	1.8V	
13	GPIO3_17.AF6	J14 – 29	AM57xx IO	1.8V	
14	GPIO3_18.AF3	J14 – 67	AM57xx IO	1.8V	
15	GPIO3_25.AE6	J14 – 31	AM57xx IO	1.8V	
16	GPIO3_24.AE2	J14 – 69	AM57xx IO	1.8V	
17	GPIO3_12.AG4	J14 – 53	AM57xx IO	1.8V	
18	GPIO3_26.AD2	J14 – 71	AM57xx IO	1.8V	
19	GPIO3_11.AH4	J14 – 55	AM57xx IO	1.8V	
20	GPIO3_21.AE3	J14 – 62	AM57xx IO	1.8V	
21	GPIO3_14.AG3	J14 – 57	AM57xx IO	1.8V	
22	GPIO3_19.AF4	J14 – 64	AM57xx IO	1.8V	
23	GPIO3_8.AH3	J14 – 59	AM57xx IO	1.8V	
24	GPIO3_22.AE5	J14 – 66	AM57xx IO	1.8V	
25	GPIO3_13.AG2	J14 – 61	AM57xx IO	1.8V	
26	GPIO3_27.AD3	J14 – 68	AM57xx IO	1.8V	
27	ADC_FPGA_VN_0.L9 <sup>1</sup>	J14 – 97	Artix-7 Input	1.8V	(Negative) XADC 12-Bit 1MSPS ADC from Artix-7 FPGA
28	FPGA_DXN.M9 <sup>1</sup>	J14 – 93	Artix-7 Output		Negative thermocouple diode output from Artix-7 FPGA.
29	ADC_FPGA_VP_0.K10 <sup>2</sup>	J14 – 99	Artix-7 Input	1.8V	(Positive) XADC 12-Bit 1MSPS ADC from Artix-7 FPGA
30	FPGA_DXP.M10 <sup>1</sup>	J14 – 95	Artix-7 Output		Positive thermocouple diode output from Artix-7 FPGA.
31	GND	N/A	Power		
32	GND	N/A	Power		
33	GND	N/A	Power		
34	GND	N/A	Power		

1. These signals are not connected to the MitySOM-AM57 non-FPGA variant.
2. These signals are connected to multi-functional IO on the MitySOM-AM57 non-FPGA variant.

### WiFi/Bluetooth Expansion Port – J3

The MitySOM-AM57(F) Development Kit incorporates a 100-pin expansion connector, J3, which is directly compatible with the Texas Instruments WL1837MODCOM8I WiFi and Bluetooth expansion card. This connector, MEC6-150-02-L-D-RA1, can also be utilized for a custom expansion card and has the following pinout.

**Table 20: J3 Connector Pin Assignments**

Pin	Signal	SOM Pin	Pin	Signal	SOM Pin
1	No Connect	N/A	2	GND	N/A
3	GND	N/A	4	WLAN_EN	J14 – 21
5	+3.3V <sup>1</sup>	N/A	6	GND	N/A
7	+3.3V <sup>1</sup>	N/A	8	+1.8V <sup>1</sup>	N/A
9	GND	N/A	10	No Connect	N/A
11	WL_RS232_TX	J10 – 231	12	No Connect	N/A
13	WL_RS232_RX	J10 – 233	14	No Connect	N/A
15	WL_UART_DBG	J10 – 115	16	No Connect	N/A
17	No Connect	N/A	18	GND	N/A
19	GND	N/A	20	WL_SDIO_CLK	J10 – 135
21	No Connect	N/A	22	GND	N/A
23	No Connect	N/A	24	WL_SDIO_CMD	J10 – 137
25	No Connect	N/A	26	WL_SDIO_D0	J10 – 139
27	No Connect	N/A	28	WL_SDIO_D1	J10 – 141
29	No Connect	N/A	30	WL_SDIO_D2	J10 – 143
31	No Connect	N/A	32	WL_SDIO_D3	J10 – 145
33	No Connect	N/A	34	WLAN_IRQ	J14 – 41
35	No Connect	N/A	36	No Connect	N/A
37	GND	N/A	38	No Connect	N/A
39	No Connect	N/A	40	No Connect	N/A
41	No Connect	N/A	42	GND	N/A
43	No Connect	N/A	44	No Connect	N/A
45	No Connect	N/A	46	No Connect	N/A
47	GND	N/A	48	No Connect	N/A
49	No Connect	N/A	50	No Connect	N/A
51	No Connect	N/A	52	BT_PCM_IF_CLK	J10 – 121
53	No Connect	N/A	54	BT_PCM_IF_FSYNC	J10 – 123
55	No Connect	N/A	56	BT_PCM_IF_DIN	J10 – 119
57	No Connect	N/A	58	BT_PCM_IF_DOUT	J10 – 117
59	No Connect	N/A	60	GND	N/A
61	No Connect	N/A	62	No Connect	N/A
63	GND	N/A	64	GND	N/A
65	No Connect	N/A	66	BT_UART_IF_TX	J10 – 227
67	No Connect	N/A	68	BT_UART_IF_RX	J10 – 193
69	No Connect	N/A	70	BT_UART_IF_CTS	J10 – 257
71	No Connect	N/A	72	BT_UART_IF_RTS	J10 – 249
73	No Connect	N/A	74	No Connect	N/A
75	No Connect	N/A	76	BT_UART_DEBUG	J10 – 275
77	GND	N/A	78	WLAN_GPIO9	J14 – 37
79	No Connect	N/A	80	No Connect	N/A
81	No Connect	N/A	82	No Connect	N/A
83	GND	N/A	84	No Connect	N/A
85	No Connect	N/A	86	No Connect	N/A
87	GND	N/A	88	No Connect	N/A
89	WLAN_BT_EN	J14 – 39	90	No Connect	N/A
91	No Connect	N/A	92	GND	N/A
93	No Connect	N/A	94	No Connect	N/A
95	GND	N/A	96	WLAN_GPIO11	J14 – 25
97	GND	N/A	98	WLAN_GPIO12	J14 – 27
99	No Connect	N/A	100	WLAN_GPIO10	J14 – 23

All IO signals are 1.8V logic levels and connected to the AM57xx processor of the MitySOM-AM57(F) module.

1. See Electrical Characteristics for maximum external current rating of +1.8V and +3.3V supplies.

**FMC Expansion Port – J1**

Table 21.1 to Table 21.10 describes the pin-out of the 400-pin FMC interface, connector part number ASP-134486-01, on the MitySOM-AM57(F) development board.

The Vselect voltage is based upon the Vselect jumper currently installed on the MitySOM-AM57(F) Development Baseboard, see the FPGA IO Voltage Select Jumper – JP4/JP5/JP6 section for further details.

The I/O “type” is in reference to the signal direction from the SOM/development board.

Please see the following VITA documentation concerning the FMC specification (<https://www.vita.com/fmc>).

**Table 21.1: J1 FMC Connector Pin A1-A40 Assignments**

FMC Pin	FMC Signal	Baseboard/SOM Signal	SOM Pin	Type
A1	GND	GND	-	POWER
A2	DP1_M2C_P	FPGA_GXB_RX1_P <sup>1</sup>	J14 – 98	I
A3	DP1_M2C_N	FPGA_GXB_RX1_N <sup>1</sup>	J14 – 96	I
A4	GND	GND	-	POWER
A5	GND	GND	-	POWER
A6	DP2_M2C_P	GND	-	POWER
A7	DP2_M2C_N	Vselect	-	POWER
A8	GND	GND	-	POWER
A9	GND	GND	-	POWER
A10	DP3_M2C_P	GND	-	POWER
A11	DP3_M2C_N	Vselect	-	POWER
A12	GND	GND	-	POWER
A13	GND	GND	-	POWER
A14	DP4_M2C_P	GND	-	POWER
A15	DP4_M2C_N	Vselect	-	POWER
A16	GND	GND	-	POWER
A17	GND	GND	-	POWER
A18	DP5_M2C_P	GND	-	POWER
A19	DP5_M2C_N	Vselect	-	POWER
A20	GND	GND	-	POWER
A21	GND	GND	-	POWER
A22	DP1_C2M_P	FPGA_GXB_TX1_P <sup>1</sup>	J14 – 92	O
A23	DP1_C2M_N	FPGA_GXB_TX1_N <sup>1</sup>	J14 – 90	O
A24	GND	GND	-	POWER
A25	GND	GND	-	POWER
A26	DP2_C2M_P	GND	-	POWER
A27	DP2_C2M_N	Vselect	-	POWER
A28	GND	GND	-	POWER
A29	GND	GND	-	POWER
A30	DP3_C2M_P	GND	-	POWER
A31	DP3_C2M_N	Vselect	-	POWER
A32	GND	GND	-	POWER
A33	GND	GND	-	POWER
A34	DP4_C2M_P	GND	-	POWER
A35	DP4_C2M_N	Vselect	-	POWER
A36	GND	GND	-	POWER
A37	GND	GND	-	POWER
A38	DP5_C2M_P	GND	-	POWER
A39	DP5_C2M_N	Vselect	-	POWER
A40	GND	GND	-	POWER

1. These signals are connected to the AM57xx processor PCIe signals on the MitySOM-AM57x non-FPGA variant.



**Table 21.2: J1 FMC Connector Pin B1-B40 Assignments**

FMC Pin	FMC Signal	Baseboard/SOM Signal	SOM Pin	Type
B1	CLK_DIR	GND <sup>1</sup>	-	-
B2	GND	GND	-	POWER
B3	GND	GND	-	POWER
B4	DP9_M2C_P	GND	-	POWER
B5	DP9_M2C_N	Vselect	-	POWER
B6	GND	GND	-	POWER
B7	GND	GND	-	POWER
B8	DP8_M2C_P	GND	-	POWER
B9	DP8_M2C_N	Vselect	-	POWER
B10	GND	GND	-	POWER
B11	GND	GND	-	POWER
B12	DP7_M2C_P	GND	-	POWER
B13	DP7_M2C_N	Vselect	-	POWER
B14	GND	GND	-	POWER
B15	GND	GND	-	POWER
B16	DP6_M2C_P	GND	-	POWER
B17	DP6_M2C_N	Vselect	-	POWER
B18	GND	GND	-	POWER
B19	GND	GND	-	POWER
B20	GBTCLK1_M2C_P	No Connect <sup>2</sup>	-	-
B21	GBTCLK1_M2C_N	No Connect <sup>2</sup>	-	-
B22	GND	GND	-	POWER
B23	GND	GND	-	POWER
B24	DP9_C2M_P	GND	-	POWER
B25	DP9_C2M_N	Vselect	-	POWER
B26	GND	GND	-	POWER
B27	GND	GND	-	POWER
B28	DP8_C2M_P	GND	-	POWER
B29	DP8_C2M_N	Vselect	-	POWER
B30	GND	GND	-	POWER
B31	GND	GND	-	POWER
B32	DP7_C2M_P	GND	-	POWER
B33	DP7_C2M_N	Vselect	-	POWER
B34	GND	GND	-	POWER
B35	GND	GND	-	POWER
B36	DP6_C2M_P	GND	-	POWER
B37	DP6_C2M_N	Vselect	-	POWER
B38	GND	GND	-	POWER
B39	GND	GND	-	POWER
B40	RES0	No Connect	-	-

1: 100k ohm resistor to GND

2: R6 and R7 can be installed to connect FPGA\_BXB\_REF\_CLK\_P/N respectively

**Table 21.3: J1 FMC Connector Pin C1-C40 Assignments**

FMC Pin	FMC Signal	Baseboard/SOM Signal	SOM Pin	Type
C1	GND	GND	-	POWER
C2	DP0_C2M_P	FPGA_GXB_TX0_P <sup>3</sup>	J14 – 80	O
C3	DP0_C2M_N	FPGA_GXB_TX0_N <sup>3</sup>	J14 – 78	O
C4	GND	GND	-	POWER
C5	GND	GND	-	POWER
C6	DP0_M2C_P	FPGA_GXB_RX0_P <sup>3</sup>	J14 – 86	I
C7	DP0_M2C_N	FPGA_GXB_RX0_N <sup>3</sup>	J14 – 84	I
C8	GND	GND	-	POWER
C9	GND	GND	-	POWER
C10	LA06_P	LA06_P	J10 – 23	IO <sup>2</sup>
C11	LA06_N	LA06_N	J10 – 25	IO <sup>2</sup>
C12	GND	GND	-	POWER
C13	GND	GND	-	POWER
C14	LA10_P	LA10_P	J10 – 17	IO <sup>2</sup>
C15	LA10_N	LA10_N	J10 – 15	IO <sup>2</sup>
C16	GND	GND	-	POWER
C17	GND	GND	-	POWER
C18	LA14_P	LA14_P	J10 – 7	IO <sup>2</sup>
C19	LA14_N	LA14_N	J10 – 5	IO <sup>2</sup>
C20	GND	GND	-	POWER
C21	GND	GND	-	POWER
C22	LA18_P_CC	LA18_P	J10 – E3-9	IO <sup>2</sup>
C23	LA18_N_CC	LA18_N	J10 – E3-10	IO <sup>2</sup>
C24	GND	GND	-	POWER
C25	GND	GND	-	POWER
C26	LA27_P	LA27_P	J10 – 63	IO <sup>2</sup>
C27	LA27_N	LA27_N	J10 – 65	IO <sup>2</sup>
C28	GND	GND	-	POWER
C29	GND	GND	-	POWER
C30	SCL	I2C5_SCL_3v3	J10 – 185	O
C31	SDA	I2C5_SDA_3v3	J10 – 207	IO
C32	GND	GND	-	POWER
C33	GND	GND	-	POWER
C34	GA0	GND	-	POWER
C35	12P0V	+12V_FMC <sup>1</sup>	-	POWER
C36	GND	GND	-	POWER
C37	12P0V	+12V_FMC <sup>1</sup>	-	POWER
C38	GND	GND	-	POWER
C39	3P3V	+3.3V	-	POWER
C40	GND	GND	-	POWER

1: +12V\_FMC is enabled on the MitySOM-AM57(F) Development Board by the RMC\_12v\_Enable signal which is automatically enabled when the Power Good signal of the +12V to +3.3V power supply on the Development Board is enabled.

2: IO Voltage based upon Vselect jumper currently installed on Development Board

3. These signals are connected to the AM57xx processor PCIe signals on the MitySOM-AM57x non-FPGA variant.

**Table 21.4: J1 FMC Connector Pin D1-D40 Assignments**

FMC Pin	FMC Signal	Baseboard/SOM Signal	SOM Pin	Type
D1	PG_C2M	PG_C2M_3V3 <sup>1</sup>		IO
D2	GND	GND	-	POWER
D3	GND	GND	-	POWER
D4	GBTCLK0_M2C_P	FPGA_GXB_REF_CLK_P <sup>3</sup>	J14 – 72	I
D5	GBTCLK0_M2C_N	FPGA_GXB_REF_CLK_N <sup>3</sup>	J14 – 74	I
D6	GND	GND	-	POWER
D7	GND	GND	-	POWER
D8	LA01_P_CC	LA01_P	J10 – 47	IO <sup>2</sup>
D9	LA01_N_CC	LA01_N	J10 – 45	IO <sup>2</sup>
D10	GND	GND	-	POWER
D11	LA05_P	LA05_P	J10 – 39	IO <sup>2</sup>
D12	LA05_N	LA05_N	J10 – 37	IO <sup>2</sup>
D13	GND	GND	-	POWER
D14	LA09_P	LA09_P	J10 – 29	IO <sup>2</sup>
D15	LA09_N	LA09_N	J10 – 27	IO <sup>2</sup>
D16	GND	GND	-	POWER
D17	LA13_P	LA13_P	J10 – 19	IO <sup>2</sup>
D18	LA13_N	LA13_N	J10 – 21	IO <sup>2</sup>
D19	GND	GND	-	POWER
D20	LA17_P_CC	LA17_P	J10 – 11	IO <sup>2</sup>
D21	LA17_N_CC	LA17_N	J10 – 9	IO <sup>2</sup>
D22	GND	GND	-	POWER
D23	LA23_P	LA23_P	J10 – 3	IO <sup>2</sup>
D24	LA23_N	LA23_N	J10 – 1	IO <sup>2</sup>
D25	GND	GND	-	POWER
D26	LA26_P	LA26_P	J10 – 55	IO <sup>2</sup>
D27	LA26_N	LA26_N	J10 – 57	IO <sup>2</sup>
D28	GND	GND	-	POWER
D29	TCK	No Connect	-	NC
D30	TDI	No Connect	-	NC
D31	TDO	No Connect	-	NC
D32	3P3VAUX	+3.3V	-	POWER
D33	TMS	No Connect	-	NC
D34	TRST_L	No Connect	-	NC
D35	GA1	GND	-	POWER
D36	3P3V	+3.3V	-	POWER
D37	GND	GND	-	POWER
D38	3P3V	+3.3V	-	POWER
D39	GND	GND	-	POWER
D40	3P3V	+3.3V	-	POWER

- 1: The PG\_C2M\_3V3 net has a 10.0k pull up to +3.3V installed, R1.
- 2: IO Voltage based upon Vselect jumper currently installed on Development Board
3. These signals are connected to the AM57xx processor ref clock PCIe signals on the MitySOM-AM57x non-FPGA variant.

**Table 21.5: J1 FMC Connector Pin E1-E40 Assignments**

FMC Pin	FMC Signal	Baseboard/SOM Signal	SOM Pin	Type
E1	GND	GND	-	POWER
E2	HA01_P_CC	HA01_P	J10 – 99	IO <sup>1</sup>
E3	HA01_N_CC	HA01_N	J10 – 101	IO <sup>1</sup>
E4	GND	GND	-	POWER
E5	GND	GND	-	POWER
E6	HA05_P	HA05_P	J10 – 72	IO <sup>1</sup>
E7	HA05_N	HA05_N	J10 – 74	IO <sup>1</sup>
E8	GND	GND	-	POWER
E9	HA09_P	HA09_P	J10 – 58	IO <sup>1</sup>
E10	HA09_N	HA09_N	J10 – 60	IO <sup>1</sup>
E11	GND	GND	-	POWER
E12	HA13_P	HA13_P	J10 – 50	IO <sup>1</sup>
E13	HA13_N	HA13_N	J10 – 52	IO <sup>1</sup>
E14	GND	GND	-	POWER
E15	HA16_P	No Connect	-	NC
E16	HA16_N	No Connect	-	NC
E17	GND	GND	-	POWER
E18	HA20_P	No Connect	-	NC
E19	HA20_N	No Connect	-	NC
E20	GND	GND	-	POWER
E21	HB03_P	No Connect	-	NC
E22	HB03_N	No Connect	-	NC
E23	GND	GND	-	POWER
E24	HB05_P	No Connect	-	NC
E25	HB05_N	No Connect	-	NC
E26	GND	GND	-	POWER
E27	HB09_P	No Connect	-	NC
E28	HB09_N	No Connect	-	NC
E29	GND	GND	-	POWER
E30	HB13_P	No Connect	-	NC
E31	HB13_N	No Connect	-	NC
E32	GND	GND	-	POWER
E33	HB19_P	GND	-	POWER
E34	HB19_N	GND	-	POWER
E35	GND	GND	-	POWER
E36	HB21_P	GND	-	POWER
E37	HB21_N	GND	-	POWER
E38	GND	GND	-	POWER
E39	VADJ	Vselect	-	POWER
E40	GND	GND	-	POWER

1: IO Voltage based upon Vselect jumper currently installed on Development Board

**Table 21.6: J1 FMC Connector Pin F1-F40 Assignments**

FMC Pin	FMC Signal	Baseboard/SOM Signal	SOM Pin	Type
F1	PG_M2C	PG_M2C <sup>1</sup>	-	PULL-UP <sup>1</sup>
F2	GND	GND	-	POWER
F3	GND	GND	-	POWER
F4	HA00_P_CC	HA00_P	J10 – 97	IO <sup>2</sup>
F5	HA00_N_CC	HA00_N	J10 – 95	IO <sup>2</sup>
F6	GND	GND	-	POWER
F7	HA04_P	HA04_P	J10 – 68	IO <sup>2</sup>
F8	HA04_N	HA04_N	J10 – 70	IO <sup>2</sup>
F9	GND	GND	-	POWER
F10	HA08_P	HA08_P	J10 – 56	IO <sup>2</sup>
F11	HA08_N	HA08_N	J10 – 54	IO <sup>2</sup>
F12	GND	GND	-	POWER
F13	HA12_P	HA12_P	J10 – 46	IO <sup>2</sup>
F14	HA12_N	HA12_N	J10 – 48	IO <sup>2</sup>
F15	GND	GND	-	POWER
F16	HA15_P	No Connect	-	NC
F17	HA15_N	No Connect	-	NC
F18	GND	GND	-	POWER
F19	HA19_P	No Connect	-	NC
F20	HA19_N	No Connect	-	NC
F21	GND	GND	-	POWER
F22	HB02_P	No Connect	-	NC
F23	HB02_N	No Connect	-	NC
F24	GND	GND	-	POWER
F25	HB04_P	No Connect	-	NC
F26	HB04_N	No Connect	-	NC
F27	GND	GND	-	POWER
F28	HB08_P	No Connect	-	NC
F29	HB08_N	No Connect	-	NC
F30	GND	GND	-	POWER
F31	HB12_P	No Connect	-	NC
F32	HB12_N	No Connect	-	NC
F33	GND	GND	-	POWER
F34	HB16_P	GND	-	POWER
F35	HB16_N	GND	-	POWER
F36	GND	GND	-	POWER
F37	HB20_P	GND	-	POWER
F38	HB20_N	GND	-	POWER
F39	GND	GND	-	POWER
F40	VADJ	Vselect	-	POWER

1: The PG\_M2C net has a 10.0k pull up to +3.3V installed, R2.

2: IO Voltage based upon Vselect jumper currently installed on Development Board

**Table 21.7: J1 FMC Connector Pin G1-G40 Assignments**

FMC Pin	FMC Signal	Baseboard/SOM Signal	SOM Pin	Type
G1	GND	GND	-	POWER
G2	CLK1_M2C_P	No Connect	-	NC
G3	CLK1_M2C_N	No Connect	-	NC
G4	GND	GND	-	POWER
G5	GND	GND	-	POWER
G6	LA00_P_CC	LA00_P	J10 – 43	IO <sup>1</sup>
G7	LA00_N_CC	LA00_N	J10 – 41	IO <sup>1</sup>
G8	GND	GND	-	POWER
G9	LA03_P	LA03_P	J10 – 42	IO <sup>1</sup>
G10	LA03_N	LA03_N	J10 – 40	IO <sup>1</sup>
G11	GND	GND	-	POWER
G12	LA08_P	LA08_P	J10 – 34	IO <sup>1</sup>
G13	LA08_N	LA08_N	J10 – 32	IO <sup>1</sup>
G14	GND	GND	-	POWER
G15	LA12_P	LA12_P	J10 – 24	IO <sup>1</sup>
G16	LA12_N	LA12_N	J10 – 22	IO <sup>1</sup>
G17	GND	GND	-	POWER
G18	LA16_P	LA16_P	J10 – 16	IO <sup>1</sup>
G19	LA16_N	LA16_N	J10 – 14	IO <sup>1</sup>
G20	GND	GND	-	POWER
G21	LA20_P	LA20_P	J10 – 6	IO <sup>1</sup>
G22	LA20_N	LA20_N	J10 – 4	IO <sup>1</sup>
G23	GND	GND	-	POWER
G24	LA22_P	LA22_P	J10 – E4-9	IO <sup>1</sup>
G25	LA22_N	LA22_N	J10 – E4-8	IO <sup>1</sup>
G26	GND	GND	-	POWER
G27	LA25_P	LA25_P	J10 – 73	IO <sup>1</sup>
G28	LA25_N	LA25_N	J10 – 75	IO <sup>1</sup>
G29	GND	GND	-	POWER
G30	LA29_P	LA29_P	J10 – 93	IO <sup>1</sup>
G31	LA29_N	LA29_N	J10 – 91	IO <sup>1</sup>
G32	GND	GND	-	POWER
G33	LA31_P	LA31_P	J10 – 59	IO <sup>1</sup>
G34	LA31_N	LA31_N	J10 – 61	IO <sup>1</sup>
G35	GND	GND	-	POWER
G36	LA33_P	LA33_P	J10 – 77	IO <sup>1</sup>
G37	LA33_N	LA33_N	J10 – 79	IO <sup>1</sup>
G38	GND	GND	-	POWER
G39	VADJ	Vselect	-	POWER
G40	GND	GND	-	POWER

1: IO Voltage based upon Vselect jumper currently installed on Development Board

**Table 21.8: J1 FMC Connector Pin H1-H40 Assignments**

FMC Pin	FMC Signal	Baseboard/SOM Signal	SOM Pin	Type
H1	VREF_A_M2C <sup>1</sup>	No Connect	-	NC
H2	PRSNT_M2C_L	D3 – LED <sup>2</sup>	-	LED
H3	GND	GND	-	POWER
H4	CLK0_M2C_P	No Connect	-	NC
H5	CLK0_M2C_N	No Connect	-	NC
H6	GND	GND	-	POWER
H7	LA02_P	LA02_P	J10 – 35	IO <sup>3</sup>
H8	LA02_N	LA02_N	J10 – 33	IO <sup>3</sup>
H9	GND	GND	-	POWER
H10	LA04_P	LA04_P	J10 – 38	IO <sup>3</sup>
H11	LA04_N	LA04_N	J10 – 36	IO <sup>3</sup>
H12	GND	GND	-	POWER
H13	LA07_P	LA07_P	J10 – 30	IO <sup>3</sup>
H14	LA07_N	LA07_N	J10 – 28	IO <sup>3</sup>
H15	GND	GND	-	POWER
H16	LA11_P	LA11_P	J10 – 20	IO <sup>3</sup>
H17	LA11_N	LA11_N	J10 – 18	IO <sup>3</sup>
H18	GND	GND	-	POWER
H19	LA15_P	LA15_P	J10 – 12	IO <sup>3</sup>
H20	LA15_N	LA15_N	J10 – 10	IO <sup>3</sup>
H21	GND	GND	-	POWER
H22	LA19_P	LA19_P	J10 – E4-10	IO <sup>3</sup>
H23	LA19_N	LA19_N	J10 – 2	IO <sup>3</sup>
H24	GND	GND	-	POWER
H25	LA21_P	LA21_P	J10 – E4-7	IO <sup>3</sup>
H26	LA21_N	LA21_N	J10 – E4-6	IO <sup>3</sup>
H27	GND	GND	-	POWER
H28	LA24_P	LA24_P	J10 – 83	IO <sup>3</sup>
H29	LA24_N	LA24_N	J10 – 81	IO <sup>3</sup>
H30	GND	GND	-	POWER
H31	LA28_P	LA28_P	J10 – 53	IO <sup>3</sup>
H32	LA28_N	LA28_N	J10 – 51	IO <sup>3</sup>
H33	GND	GND	-	POWER
H34	LA30_P	LA30_P	J10 – 71	IO <sup>3</sup>
H35	LA30_N	LA30_N	J10 – 69	IO <sup>3</sup>
H36	GND	GND	-	POWER
H37	LA32_P	LA32_P	J10 – 89	IO <sup>3</sup>
H38	LA32_N	LA32_N	J10 – 87	IO <sup>3</sup>
H39	GND	GND	-	POWER
H40	VADJ	Vselect	-	POWER

- 1: Vref already set to 0.9V on MitySOM-AM57(F)
- 2: When PRSNT\_M2C\_L is low (GND), LED D3, will illuminate
- 3: IO Voltage based upon Vselect jumper currently installed on Development Board

**Table 21.9: J1 FMC Connector Pin J1-J40 Assignments**

FMC Pin	FMC Signal	Baseboard/SOM Signal	SOM Pin	Type
J1	GND	GND	-	POWER
J2	CLK3_BIDIR_P	No Connect	-	NC
J3	CLK3_BIDIR_N	No Connect	-	NC
J4	GND	GND	-	POWER
J5	GND	GND	-	POWER
J6	HA03_P	HA03_P	J10 – 90	IO <sup>1</sup>
J7	HA03_N	HA03_N	J10 – 92	IO <sup>1</sup>
J8	GND	GND	-	POWER
J9	HA07_P	HA07_P	J10 – 66	IO <sup>1</sup>
J10	HA07_N	HA07_N	J10 – 64	IO <sup>1</sup>
J11	GND	GND	-	POWER
J12	HA11_P	HA11_P	J10 – 76	IO <sup>1</sup>
J13	HA11_N	HA11_N	J10 – 78	IO <sup>1</sup>
J14	GND	GND	-	POWER
J15	HA14_P	No Connect	-	NC
J16	HA14_N	No Connect	-	NC
J17	GND	GND	-	POWER
J18	HA18_P	No Connect	-	NC
J19	HA18_N	No Connect	-	NC
J20	GND	GND	-	POWER
J21	HA22_P	No Connect	-	NC
J22	HA22_N	No Connect	-	NC
J23	GND	GND	-	POWER
J24	HB01_P	No Connect	-	NC
J25	HB01_N	No Connect	-	NC
J26	GND	GND	-	POWER
J27	HB07_P	No Connect	-	NC
J28	HB07_N	No Connect	-	NC
J29	GND	GND	-	POWER
J30	HB11_P	No Connect	-	NC
J31	HB11_N	No Connect	-	NC
J32	GND	GND	-	POWER
J33	HB15_P	GND	-	POWER
J34	HB15_N	GND	-	POWER
J35	GND	GND	-	POWER
J36	HB18_P	GND	-	POWER
J37	HB18_N	GND	-	POWER
J38	GND	GND	-	POWER
J39	VIO_B_M2C	No Connect	-	NC
J40	GND	GND	-	POWER

1: IO Voltage based upon Vselect jumper currently installed on Development Board



**Table 21.10: J1 FMC Connector Pin K1-K40 Assignments**

FMC Pin	FMC Signal	Baseboard/SOM Signal	SOM Pin	Type
K1	VREF_B_M2C <sup>1</sup>	-	-	NC
K2	GND	GND	-	POWER
K3	GND	GND	-	POWER
K4	CLK2_BIDIR_P	No Connect	-	NC
K5	CLK2_BIDIR_N	No Connect	-	NC
K6	GND	GND	-	POWER
K7	HA02_P	HA02_P	J10 – 88	IO <sup>3</sup>
K8	HA02_N	HA02_N	J10 – 86	IO <sup>3</sup>
K9	GND	GND	-	POWER
K10	HA06_P	HA06_P	J10 – 94	IO <sup>3</sup>
K11	HA06_N	HA06_N	J10 – 96	IO <sup>3</sup>
K12	GND	GND	-	POWER
K13	HA10_P	HA10_P	J10 – 82	IO <sup>3</sup>
K14	HA10_N	HA10_N	J10 – 84	IO <sup>3</sup>
K15	GND	GND	-	POWER
K16	HA17_P_CC	No Connect	-	NC
K17	HA17_N_CC	No Connect	-	NC
K18	GND	GND	-	POWER
K19	HA21_P	No Connect	-	NC
K20	HA21_N	No Connect	-	NC
K21	GND	GND	-	POWER
K22	HA23_P	No Connect	-	NC
K23	HA23_N	No Connect	-	NC
K24	GND	GND	-	POWER
K25	HB00_P_CC	No Connect	-	NC
K26	HB00_N_CC	No Connect	-	NC
K27	GND	GND	-	POWER
K28	HB06_P_CC	No Connect	-	NC
K29	HB06_N_CC	No Connect	-	NC
K30	GND	GND	-	POWER
K31	HB10_P	No Connect	-	NC
K32	HB10_N	No Connect	-	NC
K33	GND	GND	-	POWER
K34	HB14_P	No Connect	-	NC
K35	HB14_N	No Connect	-	NC
K36	GND	GND	-	POWER
K37	HB17_P_CC	GND	-	POWER
K38	HB17_N_CC	GND	-	POWER
K39	GND	GND	-	POWER
K40	VIO_B_M2C <sup>2</sup>	No Connect	-	NC

1: Vref already set to 0.9V on MitySOM-AM57(F)

2: VIO\_B already set to +1.8V on MitySOM-AM57(F)

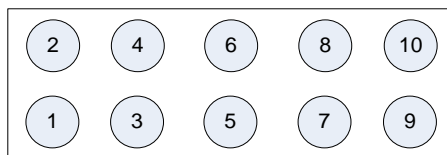
3: IO Voltage based upon Vselect jumper currently installed on Development Board

## I2C5 Expansion Port – J4

The 10-pin connector J4 allows external connections to the I2C5 interface from the AM57xx processor. Both +1.8V and +3.3V logic level connections for this interface are available on the connector as well as 1.8V and 3.3V power supply and ground connections. Please reference Table 5 for I2C5 address information. The pinout for this connector is shown below.

**Table 22: J4 Connector Pin Assignments**

Pin	Signal	SOM Pin	Type	Standard	Notes
1	I2C5_SCL_1v8	J10 - 185	I/O	1.8V	4.7k pull-up to 1.8V on Development Baseboard, R37.
2	I2C5_SCL_3v3	J10 - 185	I/O	3.3V	4.7k pull-up to 3.3V on Development Baseboard, R53.
3	I2C5_SDA_1v8	J10 - 207	I/O	1.8V	4.7k pull-up to 1.8V on Development Baseboard, R39.
4	I2C5_SDA_3v3	J10 - 207	I/O	3.3V	4.7k pull-up to 3.3V on Development Baseboard, R54.
5	+1.8V		Power		See Electrical Characteristics for maximum external current rating of +1.8V supply.
6	+3.3V		Power		See Electrical Characteristics for maximum external current rating of +3.3V supply.
7	No Connect		NC		
8	No Connect		NC		
9	GND		Power		
10	GND		Power		



**Figure 2: J4 Pin-out (Top View)**

## 5V DC Fan Connector – J7

The 5V fan connector, J7, is a Molex 22-23-2021. The interface is designed to mate with a +5V DC cooling fan and is controlled, enabled by default, by the PMIC on the MitySOM-AM57(F) module. The connector pinout is described below:

**Table 23: J7 Pin Out**

J7 Pin	Signal	Note	SOM Pin
1	+5V	N/A	N/A
2	GND	Enabled by AUXFAN_EN	J10 – E3-4

## Baseboard 256Kbit EEPROM – U11

The MitySOM-AM57(F) Development Board features a user-accessible CAT24C256WI-GT3 I2C accessible 256 Kbit EEPROM. Please reference Table 5 for I2C5 address information. The hardware write-protect feature on this EEPROM is not available.

**MitySOM-AM57(F) +5V current/power monitor – U8**

The MitySOM-AM57(F) Development Board features a LTC2945IMS I2C accessible power/current monitor and single-channel ADC. Please reference Table 5 for I2C5 address information.

The single ADC channel monitors the +12V power supply on the Development Board through a resistor divider with a ratio of  $\sim 0.0826/\text{volt}$ . With this divider, a value of 0.99V is expected for a 12.0V supply voltage.

The ALERT# output, Pin 10, from the power monitor, U8, is connected to MitySOM-AM57(F) Pin J10 – 246.

**Development Board +5V, +3.3V, +2.5V and +1.8V voltage monitor – U10**

The MitySOM-AM57(F) Development Board features an AD7995YRJZ I2C accessible 4 channel ADC which is used to measure/monitor the +5V, +3.3V, +2.5V, and +1.8V supplies generated on the Development Board. Please reference Table 5 for I2C5 address information.

The table below lists each channel, the voltage that it measures, and any resistor divider ratio used.

**Table 24**

U10 Pin	ADC Channel	Voltage Monitored	Ratio	Expected Value at Stated Voltage
3	0	+5.0V	0.5/volt	2.50V
4	1	+3.3V	0.5/volt	1.65V
5	2	+1.8V	1.0/volt	1.8V
6	3	+2.5V	1.0/volt	2.5V

## Module Configuration Jumpers

### Boot Configuration Jumper – JP8

The MitySOM-AM57(F) can be configured to boot using 2 different boot sequences according to the BOOTMODE jumper on the development board, JP8. The pin is pulled up to +1.8V on the SOM and results in the default boot mode being the “high” mode shown below. If the “low” mode is desired a jumper should be installed across JP8 which will cause the BOOTMODE pin of the MitySOM-AM57(F) (J10 – Pin 74) to be pulled to GND.

JP8 Removed (Default) “high”

1. SD card (MMC1)
2. eMMC (MMC2)
3. HS USB2.0 (USB1)

JP8 Installed “low”

1. On SOM Quad SPI NOR (QSPI1)
2. SD card (MMC1)
3. HS USB2.0 (USB1)

Please see the “AM57xx Boot Media Mode” section in the MitySOM-AM57(F) Datasheet for additional details.

### FPGA IO Voltage Select Jumper – JP4/JP5/JP6

The Artix-7 FPGA user-controlled banks on the MitySOM-AM57(F) feature user-selectable IO voltages. On the MitySOM-AM57x Development Board VCCO\_34 and VCCO\_15 are powered by the same voltage, Vselect. This voltage level, either +3.3V, +2.5V, or +1.8V is selected by which jumper is installed on either JP4, JP5, or JP6. The table below lists the jumper settings.

**Table 25: JP4, JP5, and JP6 Jumper Settings**

JP4 (+3.3V)	JP5 (+2.5V)	JP6 (+1.8V)	VCCO 34 Voltage	VCCO 15 Voltage
Installed	Not Installed	Not Installed	+3.3V	+3.3V
Not Installed	Installed	Not Installed	+2.5V	+2.5V
Not Installed	Not Installed	Installed	+1.8V	+1.8V

Note that only one jumper should be installed at a given time.

## PMIC Power Hold Jumper – JP7

The MitySOM-AM57(F) Development Board features a 3-pin jumper header to control the state of the PMIC\_POWERHOLD signal to the module, J10 – Pin E3-7. By default, no jumper is installed on this header. The jumper settings are documented in the following table.

**Table 26: J7 Settings**

<b>JP7 Setting</b>	<b>Module Power State</b>
Pin 1 & 2 Shorted	Pulled High (+1.8V) Module is always on
Pin 2 & 3 Shorted Or All Pins Floating	(Default) Software control of module power through the PMIC on the MitySOM-AM57(F) module

Please see the MitySOM-AM57(F) Datasheet for additional details about the PMIC\_POWERHOLD feature.

## SOM Manual Reset Switch – S2

When switch S2 is pressed it connects the PB\_RESETh signal to GND which causes the AM57xx processor on the MitySOM-AM57(F) to reset.

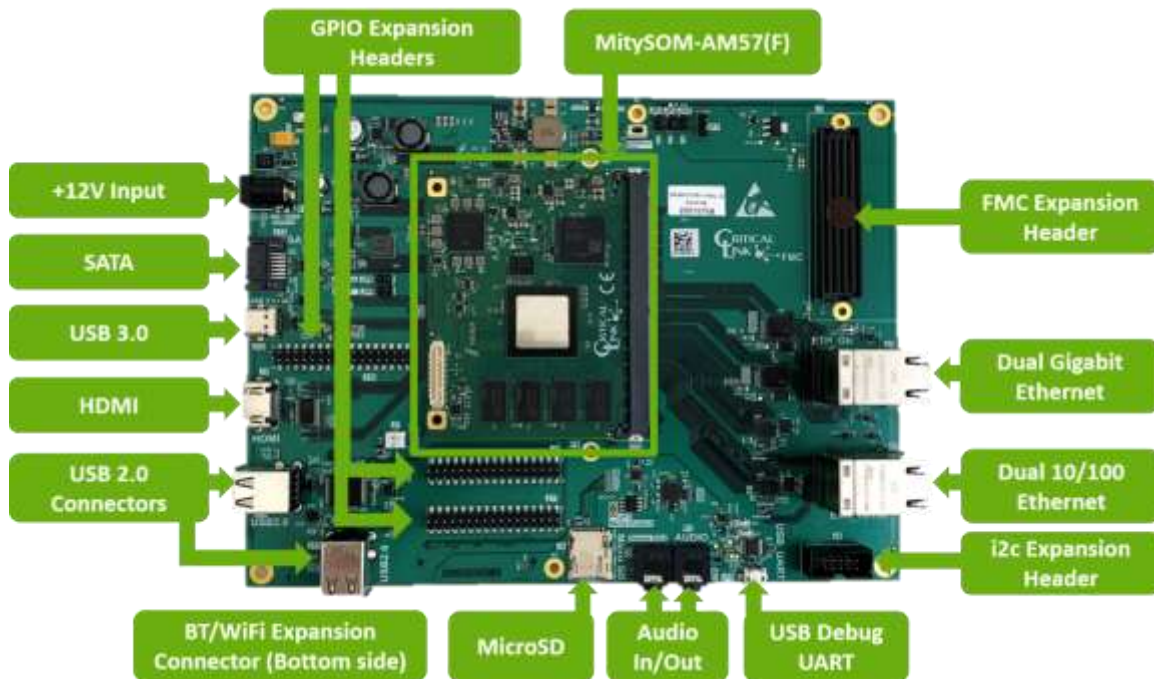
### Included Components

The following table lists the components that are included with a MitySOM-AM57(F) Development Kit. See Table 28 for specific development kit ordering information.

**Table 27: Included Items**

Description	Interface Port	Qty. Included
MitySOM-AM57(F) Development Kit Board	n/a	Qty. 1
MitySOM-AM57 or AM57F Module	n/a	Qty. 1
Micro USB Cable	J16	Qty. 1
12V 3.34A AC to DC Supply	P1	Qty. 1
Ethernet cable – 7 foot	J8 & J9	Qty. 1
Development Kit Schematic Files	n/a	
Development Kit Gerber Drawings	n/a	
Development Kit Bill Of Materials	n/a	

### MitySOM-AM57(F) Development Kit Board with MitySOM-AM57(F) Module



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## ORDERING INFORMATION

### Development Kits

The following table lists the standard MitySOM-AM57(F) Development Kit configurations. For shipping status, availability, and lead time of these or other configurations please contact your Critical Link representative.

**Table 28: Standard Model Numbers**

<b>Development Kit Model</b>	<b>Module Included</b>	<b>Operating Temp</b>
80-001428	5728-PJ-4AA-RC	0°C to 70° C
80-001429	5748-PJ-4AA-RI	-40°C to 85° C
80-001430	5749-PM-4AA-RI	-40°C to 85° C