FEATURES

- TI AM1808 ARM9 Application Processor
 - 456 MHz ARM926EJ-S MPU
 - 16 KB L1 Program Cache
 - 16 KB L1 Data Cache
 - 8 KB Internal RAM
 - 64 KB boot ROM
 - JTAG Emulation/Debug
- Up To 256 MB mDDR2 CPU RAM
- Up To 512 MB Parallel NAND FLASH
- 8 MB SPI based NOR FLASH
- Integrated Power Management
- Standard SO-DIMM-200 Interface
 - 10/100 EMAC MII / RMII / MDIO
 - 2 UARTS
 - 2 McBSPs, 2 SPI, 2HPI
 - 2 USB Ports
 - Video, LCD Output
 - Camera/Video Input
 - MMC/SD
 - SATA
 - ePWM, eCAP
 - EMIFA
 - Single 3.3V Power Supply



(actual size)

APPLICATIONS

- Industrial Automation
- Industrial Instrumentation
- Embedded Control Processing
- Embedded User Interfaces
- Test and Measurement
- Medical Devices

BENEFITS

- Rapid Development / Deployment
- Multiple Connectivity and Interface Options
- Rich User Interfaces
- High System Integration
- High Level OS Support
 - Linux
 - QNX 6.4
 - Windows Embedded CE Ready
 - ThreadX Real Time OS

DESCRIPTION

The MitySOM-1808 is a highly configurable, very small form-factor processor card that features a Texas Instruments AM1808 456 MHz ARM Applications Processor, FLASH (NAND, and NOR) and mDDR2 RAM memory subsystems. The MitySOM-1808 provides a complete and flexible CPU infrastructure necessary for the most demanding embedded applications development.

The AM1808 includes an ARM926EJ-S micro-processor unit (MPU) capable of running the rich software applications programming interfaces (APIs) expected by modern system designers. The ARM architecture supports several operating systems, including Linux, QNX and Windows XP embedded. Linux drivers are available for all interfaces.



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Figure 1 MitySOM-1808 Block Diagram

Figure 1 provides a top level block diagram of the MitySOM-1808 processor card. As shown in the figure, the primary interface to the MitySOM-1808 is through a standard SO-DIMM-200 card edge interface. The interface provides power, synchronous serial connectivity, and a rich set of interfaces available for application defined interfacing. Details of the SO-DIMM-200 connector interface are included in the SO-DIMM-200 Interface Description, below.

AM1808 mDDR2 Memory Interface

The AM1808 includes a dedicated DDR2 SDRAM memory interface. The MitySOM-1808 includes up to 256 MB of mDDR2 RAM integrated with the AM1808 processor. The bus interface is capable of burst transfer rates of 600 MB / second. Note that the OSCIN frequency to the AM1808 processor on the module is 24MHz.

AM1808 SPI NOR FLASH Interface

The MitySOM-1808 includes 8 MB of SPI NOR FLASH. This FLASH memory is intended to store a factory provided bootloader, and typically a compressed image of a Linux kernel for the ARM core processor.



EMIFA / NAND FLASH Interface

The Asynchronous External Memory Interface (EMIFA) interface available on the AM1808 is available on the SO-DIMM-200 connector. The EMIFA interface includes 3 chip select spaces. The EMIF interface supports multiple data width transfers and bus wait state configurations based on chip select space. 8, and 16 bit data word sizes may be used.

Up to 512 MB of on-board NAND FLASH memory is connected to the AM1808 using the EMIFA bus. The FLASH memory is 8 bits wide and is connected to the third chip select line of the EMIFA (CE1). The FLASH memory is typically used to store the following types of data:

- ARM Linux / Windows Embedded CE / QNX embedded root file-system
- runtime ARM software
- runtime application data (non-volatile storage)

AM1808 Camera and Video Interfaces

The AM1808 includes an optional video port I/O interface commonly used to drive LCD screens as well as a camera input interface. These interfaces have been routed directly to the SO-DIMM-200 connector.

Debug Interface

The JTAG signals for the AM1808 processor have been brought out to a Hirose header that is intended for use with an available Critical Link breakout adapter. This header can be removed for production units; please contact your Critical Link representative for details.

This adapter is not included with individual modules but is included with each Critical Link Development Kit that is ordered. If an adapter, Critical Link (CL) part number 80-000286, is needed please contact your Critical Link representative.

Software and Application Development Support

Users of the MitySOM-1808 are encouraged to develop applications using the MitySOM-1808 software development kit provided by Critical Link LLC. The development kit includes an implementation of an OpenEmbedded board support package providing an Angstrom based Linux distribution and compatible gcc compiler tool-chain with debugger.

Growth Options

The MitySOM-1808 has been designed to support several upgrade options. These options include various speed grades, memory configurations, and operating temperature specifications including commercial and industrial temperature ranges. The available options are listed in the section below containing ordering information. For additional ordering information and details regarding these options, or to inquire about a particular configuration not listed below, please contact a Critical Link sales representative.



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, Vcc | 3.5 V |
|-----------------------------|-------|
| | |
| | |

Storage Temperature Range-65 to 80CShock, Z-Axis ± 10 gShock, X/Y-Axis ± 10 g

OPERATING CONDITIONS

| Ambient Temperature Range Commercial | 0°C to 70°C |
|---|--------------------------------------|
| Ambient Temperature Range Industrial | -40°C to 85°C |
| Humidity | 0 to 95% |
| | Non-condensing |
| MIL-STD-810F | Contact Critical Link for Details |

SO-DIMM-200 Interface Description

The primary interface connector for the MitySOM-1808 is the SO-DIMM card edge interface which contains 4 classes of signals:

Power (PWR)

Dedicated signals mapped to the AM1808 device (D) Dedicated signals when NAND memory is populated on the module (D*) Multi-function signals mapped to the AM1808 device (M)

Table 1 contains a summary of the MitySOM-1808 pin mapping.

| D' | I able I SO-DIMINI Pin-Out in Doll Tumo I/O Signal Din Doll Tumo I/O Signal | | | | | | | S: 1 | |
|-----|---|------|-----|-----------------------|-----|------|------|------|-----------|
| Pin | Ball | Туре | I/O | Signal | Pin | Ball | Туре | I/O | Signal |
| 1 | - | PWR | - | +3.3 V in | 2 | - | PWR | - | +3.3 V in |
| 3 | - | PWR | - | +3.3 V in | 4 | - | PWR | - | +3.3 V in |
| 5 | - | PWR | I | +3.3 V in | 6 | - | PWR | - | +3.3 V in |
| 7 | - | PWR | I | GND | 8 | - | PWR | - | GND |
| 9 | - | PWR | I | GND | 10 | - | PWR | - | GND |
| 11 | K14 | D | Ι | RESET_IN# | 12 | - | D | Ι | EXT_BOOT# |
| 13 | J1 | D | 0 | SATA_TX_P | 14 | A4 | Μ | I/O | GP0_7 |
| 15 | J2 | D | 0 | SATA_TX_N | 16 | A3 | Μ | I/O | GP0_10 |
| 17 | L1 | D | Ι | SATA_RX_P | 18 | A2 | Μ | I/O | GP0_11 |
| 19 | L2 | D | Ι | SATA_RX_N | 20 | A1 | Μ | I/O | GP0_15 |
| 21 | P16 | D | Ι | USB0_ID | 22 | B4 | Μ | I/O | GP0_6 |
| 23 | P18 | D | I/O | USB1_D_N | 24 | B1 | Μ | I/O | GP0_14 |
| 25 | P19 | D | I/O | USB1_D_P | 26 | B2 | Μ | I/O | GP0_12 |
| 27 | N19 | D | 0 | USB0_VBUS | 28 | B3 | Μ | I/O | GP0_5 |
| 29 | M18 | D | I/O | USB0_D_N | 30 | C2 | Μ | I/O | GP0_13 |
| 31 | M19 | D | I/O | USB0_D_P | 32 | C3 | Μ | I/O | GP0_1 |
| 33 | K18 | D | 0 | USB0_DRVVBUS | 34 | C4 | М | I/O | GP0_4 |
| 35 | - | D | - | 3V RTC Battery | 36 | C5 | М | I/O | GP0_3 |
| 37 | - | PWR | - | +3.3 V in | 38 | - | PWR | - | +3.3 V in |
| 39 | - | PWR | - | +3.3 V in | 40 | - | PWR | - | +3.3 V in |





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| | 0_2 |
|---|------------------------------|
| 43 H17 D I/O SPI1_MISO 44 D4 M I/O GPO 45 G17 D I/O SPI1_MOSI 46 E4 M I/O GPO 47 H16 D I/O SPI1_ENA 48 F4 M I/O GPO 49 ¹ G19 D I/O SPI1_CLK 50 D5 M I/O GPO 51 F18 M I/O SPI1_SCS[1] 52 A12 M I/O MM | 0_2 |
| 45 G17 D I/O SPI1_MOSI 46 E4 M I/O GPO 47 H16 D I/O SPI1_ENA 48 F4 M I/O GPO 49 ¹ G19 D I/O SPI1_CLK 50 D5 M I/O GPO 51 F18 M I/O SPI1_SCS[1] 52 A12 M I/O MM | - |
| 47 H16 D I/O SPI1_ENA 48 F4 M I/O GP0 49 ¹ G19 D I/O SPI1_CLK 50 D5 M I/O GP0 51 F18 M I/O SPI1_SCS[1] 52 A12 M I/O MM | |
| 49 ¹ G19 D I/O SPI1_CLK 50 D5 M I/O GPO 51 F18 M I/O SPI1_SCS[1] 52 A12 M I/O MM | |
| 51 F18 M I/O SPI1_SCS[1] 52 A12 M I/O MM | |
| | |
| | ACSD0_DAT[7] |
| | ACSD0_DAT[6] ACSD0_DAT[5] |
| | |
| | ACSD0_DAT[4] |
| | ACSD0_DAT[3] |
| I2C1_SDA | |
| | ACSD0_DAT[2] |
| 63 - PWR - GND 64 - PWR - GNI | ID |
| | |
| | ACSD0_DAT[1] |
| | ACSD0_DAT[0] |
| | ACSD0_CMD |
| | ACSD0_CLK |
| | I_TXCLK |
| | I_TXD[3] |
| | I_TXD[2] |
| | I_TXD[1] |
| | I_TXD[0] |
| | I_TXEN |
| 85 - PWR - GND 86 - PWR - GNI | |
| | I_COL |
| 89 C16 M I MII_RXER 90 - D - NC | |
| | P_CHA_START |
| | _CLKIN1 |
| | P_D[15] / |
| | III_TXD[1] |
| | P_D[14] / |
| | III_TXD[0] |
| | P_D[13] / |
| | III_TXEN |
| | P_D[12] / |
| | III_RXD[1] |
| | P_D[11] / |
| | III_RXD[0] |
| | P_D[10] / |
| | III_RXER |
| 107 - PWR - GND 108 - PWR - GNI | |
| | P_D[9] / |
| | III_REF_CLK |
| | P_D[8] / |
| | III_CRS_DV |
| | P_D[7] |
| | P_D[6] |
| 117 A13 M O EMA_A[8] 118 U16 M I/O UPP | P_CHA_ENABLE |
| 119 D12 M O EMA_A[9] 120 U19 M I/O UPP | P_D[5] |
| 121 C12 M O EMA_A[10] 122 T16 M I/O UPP | P_D[4] |



| Pin | Ball | Туре | I/O | Signal | Pin | Ball | Туре | I/O | Signal |
|------------------|------|------|-----|----------------|-----|------------------|------|-----|----------------|
| 123 | B12 | M | 0 | EMA_A[11] | 124 | R18 | M | I/O | UPP_D[3] |
| 125 | D13 | М | 0 | EMA_A[12] | 126 | R19 | М | I/O | UPP_D[2] |
| 127 | D11 | М | 0 | EMA_A[13] | 128 | T15 | М | I/O | UPP_CHA_WAIT |
| 129 | - | PWR | - | GND | 130 | - | PWR | - | GND |
| 131 | E6 | D* | I/O | EMA_D[15] | 132 | R15 | М | I/O | UPP_D[1] |
| 133 | C7 | D* | I/O | EMA_D[14] | 134 | P17 | М | I/O | UPP_D[0] |
| 135 | B6 | D* | I/O | EMA_D[13] | 136 | U17 | М | I/O | UPP_CHA_CLK |
| 137 | A6 | D* | I/O | EMA_D[12] | 138 | J4 | М | I/O | UPP_CHB_ENABLE |
| 139 | D6 | D* | I/O | EMA_D[11] | 140 | K3 | М | 0 | VP_CLKOUT2 |
| 141 | A7 | D* | I/O | EMA_D[10] | 142 | H3 | М | Ι | VP_CLKIN2 |
| 143 | D9 | D* | I/O | EMA_D[9] | 144 | G3 | М | I/O | UPP_CHB_WAIT |
| 145 | E10 | D* | I/O | EMA_D[8] | 146 | G2 | М | I/O | UPP_CHB_START |
| 147 | D7 | D* | I/O | EMA_D[7] | 148 | G1 | М | I/O | UPP_CHB_CLK |
| 149 | C6 | D* | I/O | EMA_D[6] | 150 | W14 | М | Ι | VP_CLKIN0 |
| 151 | - | PWR | - | GND | 152 | - | PWR | - | GND |
| 153 | E7 | D* | I/O | EMA_D[5] | 154 | P4 | М | I/O | LCD_D[15] |
| 155 | B5 | D* | I/O | EMA_D[4] | 156 | R3 | М | I/O | LCD_D[14] |
| 157 | E8 | D* | I/O | EMA_D[3] | 158 | R2 | М | I/O | LCD_D[13] |
| 159 | B8 | D* | I/O | EMA_D[2] | 160 | R1 | М | I/O | LCD_D[12] |
| 161 | A8 | D* | I/O | EMA_D[1] | 162 | T3 | М | I/O | LCD_D[11] |
| 163 | C9 | D* | I/O | EMA_D[0] | 164 | T2 | М | I/O | LCD_D[10] |
| 165 | C8 | М | 0 | EMA_WEN_DQM[0] | 166 | T1 | М | I/O | LCD_D[9] |
| 167 | A5 | Μ | 0 | EMA_WEN_DQM[1] | 168 | U3 | М | I/O | LCD_D[8] |
| 169 | D8 | Μ | 0 | EMA_SDCKE | 170 | U2 | М | I/O | LCD_D[7] |
| 171^{3} | B7 | М | 0 | EMA_CLK | 172 | U1 | М | I/O | LCD_D[6] |
| 173 | - | PWR | - | GND | 174 | - | PWR | - | GND |
| 175 | B9 | D* | 0 | EMA_WE | 176 | G4 | М | 0 | LCD_VSYNC |
| 177 | A9 | Μ | 0 | EMA_CAS | 178 | H4 | Μ | 0 | LCD_HSYNC |
| 179 | A16 | М | 0 | EMA_RAS | 180 | V3 | М | I/O | LCD_D[5] |
| 181 | B17 | М | 0 | EMA_CS[2] | 182 | F1 | М | 0 | LCD_PCLK |
| 183 | F9 | М | 0 | EMA_CS[4] | 184 | V2 | М | I/O | LCD_D[4] |
| 185 | B16 | М | 0 | EMA_CS[5] | 186 | V1 | М | I/O | LCD_D[3] |
| 187 | T17 | D | 0 | RESET_OUT | 188 | W3 | М | I/O | LCD_D[2] |
| 189 | J3 | М | Ι | VP_CLKIN3 | 190 | W2 | М | I/O | LCD_D[1] |
| 191 | K4 | М | 0 | VP_CLKOUT3 | 192 | W1 | М | I/O | LCD_D[0] |
| 193 | F2 | М | 0 | LCD_MCLK | 194 | R5 | М | 0 | LCD_AC_ENB_CS |
| 195 | - | PWR | - | GND | 196 | - | PWR | - | GND |
| 197 ⁴ | D10 | М | 0 | EMA_A_RW | 198 | B18 ⁴ | D* | Ι | EMA_WAIT[0] |
| 199 ⁴ | A17 | D* | 0 | EMA_CS[3] | 200 | B19 ⁴ | Μ | Ι | EMA_WAIT[1] |

Note 1: Pin 49, SPI1_CLK, has a 100K Ohm pull-down resistor on the module

Note 2: Pins 55 and 57 have 4.70K pull-up resistors on the module

Note 3: Pin 171, EMA_CLK, has a 49.9 Ohm resistor in series with the signal on the module

Note 4: Pins 197, 198, 199 and 200 have 1.00K Ohm resistors in series with the signals on the module

The signal group description for the above pins is included in Table 2



| | | Table 2 Signal Group Description |
|------------------------|------|--|
| Signal / Group | Туре | Description |
| 3.3 V in | N/A | 3.3 volt input power referenced to GND. |
| EXT_BOOT# | Ι | Bootstrap configuration pin. Pull low to configure booting |
| | | from external UART1. |
| RESET_IN# | Ι | Manual Reset. When pulled to GND for a minimum of 1 |
| | | usec, resets the processor. |
| SPI1_* | I/O | Serial Peripheral Interface 1 pins. |
| | | These pins are direct connects to the corresponding SPI1_* |
| | | pins on the AM1808 processor. The SPI1_* function pins are |
| | | multiplexed with other functions. These include PWM, |
| | | Timers, UARTs, I2C0, and GPIO. For details please refer to |
| | | the AM1808 processor specifications. |
| MII_* | I/O | Media Independent Interface (Ethernet) pins. |
| | | These pins are direct connects to the corresponding MII_* |
| | | pins on the AM1808 processor. The MII_* function pins are |
| | | multiplexed with other functions. These include SPI0, PWM, |
| | | Timers, UART0, MCBSP, MCASP, and GPIO. For details |
| | | please refer to the AM1808 processor specifications. |
| MDIO_DAT | I/O | MII/RMII Management Interface pins. |
| MDIO_CLK | | The MDIO_CLK and MDIO_DAT signals are direct connects |
| | | to the corresponding MDIO_* signals on the AM1808 |
| | | processor. The MDIO_* function pins are multiplexed with |
| | | other functions. These include SPI0 and Timer functions. |
| | | For details please refer to the AM1808 processor |
| CD0 # | T/O | specifications. |
| GP0_* | I/O | General Purpose / multiplexed pins. These pins are direct |
| | | connects to the corresponding GP0[*] pins on the AM1808 |
| | | processor. The include support for the McASP, general |
| | | purpose I/O, UART flow control, and McBSP 1. For details |
| ς ΑΤΑ ΤΥ D | 0 | please refer to the AM1808 processor specifications. |
| SATA_TX_P SATA_TX_N | 0 | Serial ATA Controller Transmit pins. |
| SATA_TA_N | | These pins are direct connects to the corresponding SATA_TX_* pins on the AM1808 processor. For details |
| | | please refer to the AM1808 processor specifications. |
| SATA_RX_P | Ι | Serial ATA Controller Receive pins. |
| SATA_RX_N | 1 | These pins are direct connects to the corresponding |
| | | SATA_RX_* pins on the AM1808 processor. For details |
| | | please refer to the AM1808 processor specifications. |
| GND | N/A | System Digital Ground. |
| | 11/1 | System Digital Orband. |



| Signal / Group | Туре | Description |
|----------------|------|--|
| EMA_* | I/O | EMIF-A pins. These pins are direct connects to the |
| | | corresponding EMA_* pins on the AM1808 processor. |
| | | Alternatively, these pins can be configured as GPIOs for |
| | | modules that do not have NAND memory present. For details |
| | | please refer to the AM1808 processor specifications. Note that |
| | | pins 197, 198, 199 and 200 have 1.00K Ohm resistors in |
| | | series with the signals on the module. |
| UPP_* | I/O | Universal Parallel Port pins. |
| | | These pins are direct connects to the corresponding UPP_* |
| | | pins on the AM1808 processor. The UPP_* function pins are |
| | | multiplexed with other functions. These include RMII, |
| | | VP_DIN, MMCSD1, and GPIO. For details please refer to |
| | | the AM1808 processor specifications. |
| RMII_* | I/O | Reduced Media Independent Interface pins. |
| | | These pins are direct connects to the corresponding RMII_* |
| | | pins on the AM1808 processor. The RMII_* function pins |
| | | are multiplexed with other functions. These include UPP and |
| | | VP_DIN. For details please refer to the AM1808 processor |
| | | specifications. |
| LCD_* | I/O | Liquid Crystal Display pins. |
| | | These pins are direct connects to the corresponding LCD_* |
| | | pins on the AM1808 processor. The LCD_* function pins are |
| | | multiplexed with other functions. These include VP_DOUT, |
| | | UPP, MMCSD1, and GPIO. For details please refer to the |
| | | AM1808 processor specifications. |
| VP_* | I/O | Video Port In/Out. |
| | | These pins are direct connects to the corresponding VP_* pins |
| | | on the AM1808 processor. The VP_* function pins are |
| | | multiplexed with other functions. These include UPP, |
| | | MMCSD1, and GPIO. For details please refer to the AM1808 |
| | | processor specifications. |
| RESET_OUT | I/O | Reset Output pin. |
| | | This pin is a direct connect to the RESET_OUT pin on the |
| | | AM1808 processor. This pin can also be configured as a |
| | | GPIO. For details please refer to the AM1808 processor |
| | | specifications. |
| USB0_*, | I/O | Universal Serial Bus 0 / 1 pins. |
| USB1_* | | These pins are direct connects to the corresponding USB_* |
| | | pins on the AM1808 processor. For details please refer to the |
| | | AM1808 processor specifications. |



DEBUG INTERFACE

Below is the pin-out for the Hirose 31 pin header (DF9-31P-1V(32)) that interfaces with an available adapter board, CL part number 80-000286, to debug the AM1808.

Debug Interface Connector Description (J2)

| | | Table 3 AM1808 | Hirose | Conne | ctor |
|-----|-----|----------------|---------------|-------|--------------------|
| Pin | I/O | Signal | Pin | I/O | Signal |
| 1 | - | GND | 2 | 0 | OMAP EMU1 |
| 3 | - | GND | 4 | 0 | OMAP EMU0 |
| 5 | - | GND | 6 | Ι | OMAP TCK |
| 7 | - | GND | 8 | 0 | OMAP RTCK |
| 9 | - | GND | 10 | 0 | OMAP TDO |
| 11 | - | GND | 12 | - | OMAP VCC / 3.3V |
| 13 | - | GND | 14 | Ι | OMAP TDI |
| 15 | - | GND | 16 | Ι | OMAP TRST |
| 17 | - | GND | 18 | Ι | OMAP TMS |
| 19 | - | GND | 20 | - | GND |
| 21 | - | GND | 22 | NC | FPGA VREF / VCCAUX |
| 23 | - | GND | 24 | NC | FPGA TMS |
| 25 | - | GND | 26 | NC | FPGA TCK |
| 27 | - | GND | 28 | NC | FPGA TDO |
| 29 | - | GND | 30 | NC | FPGA TDI |
| 31 | - | GND | | | |



ELECTRICAL CHARACTERISTICS

Table 4: Electrical Characteristics

| Symbol | Parameter | Conditions | Min | Тур | Max | Units |
|---------|---|------------|-----|-----|-------------|--------|
| | | | | | | |
| V33 | Voltage supply, 3.3 volt input. | | 3.2 | 3.3 | 3.4 | Volts |
| I33 | Quiescent Current draw, 3.3 volt input | | 170 | 230 | 250 | mA |
| I33-max | Max current draw, positive 3.3 volt input. | | | 300 | TBS | mA |
| FCPU | CPU internal clock Frequency (PLL output) | | 25 | 300 | 456 | MHz |
| FEMIF | EMIF bus frequency | | - | 100 | - | MHz |
| | 1. Power utilization of the MitySOM-180 include: ARM CPU PLL configuration | | | | on. Major f | actors |

ORDERING INFORMATION

The following table lists the standard module configurations. For shipping status, availability, and lead time of these or other configurations please contact your Critical Link representative.

| Table 5: Standard Model Numbers | | | | | | |
|---------------------------------|-----------|--------------|------------|-------|---------------------------------|--|
| Model | ARM Speed | NOR Flash | NAND Flash | RAM | Operating Temp | |
| 1808-FX-225-RC | 456 MHz | 8MB | 256MB | 128MB | 0° C to 70° C | |
| 1808-DX-225-RI | 375 MHz | 8MB | 256MB | 128MB | -40°C to 85°C | |



MECHANICAL INTERFACE

A mechanical outline of the MitySOM-1808 is illustrated in Figure 2, below.



Figure 2 MitySOM-1808 Mechanical Outline

REVISION HISTORY

| Date | Change Description |
|-------------|---|
| 7-JAN-2011 | Initial Release |
| 11-FEB-2011 | Update DDR Speed to support 150 MHz clocking. |
| 12-JUL-2011 | Update NAND to indicate 8 bit data width. Update block |
| | diagram accordingly. |
| 11-DEC-2012 | Update Debug Header information, added MIL-STD-810F and |
| | Up To notation for RAM and NAND |
| 27-MAR-2013 | Added AM1808 processor pins with notes about on module |
| | resistors for specific pins as well as the OSCIN frequency. |
| 5-MAR-2014 | Update MitySOM product name. |
| | |

