

CM-X300 PCN-AM07062011

Product Change Notice

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1. PRODUCT CHANGE NOTICE

Overview

Board revision 1.6 is now available for CM-X300 boards.

New CM-X300 boards shipped after 01/08/2011 until further notice will be with board revision 1.6 unless the customer specifically requests a different board revision.

Board Revision Notes

1. DRAM layout and routing has been changed in order to improve CM-X300 DRAM stability.
2. WIFI and BLUETOOTH power supplies are now united. (Issue described in CM-X300 ECN-AM20101205-001 is fixed)
3. An onboard EEPROM was added to I2C bus.
4. CM-X300-C624M-* USB1 XCVR power supply is now DA9030 LDO7 and not LDO18 as in previous CM-X300 board revisions. This change improves CM-X300-D624M-* board power consumption in low power mode.
5. LED DS1 and other board components placement has changed.

Mechanical implications

1. Several board components are placed differently compared to older board revision. Please refer to Figures 1-4 for high level comparison.
2. Several new components have been added to the board. Please refer to Figures 1-4 for high level comparison.
3. Board dimensions have not changed.

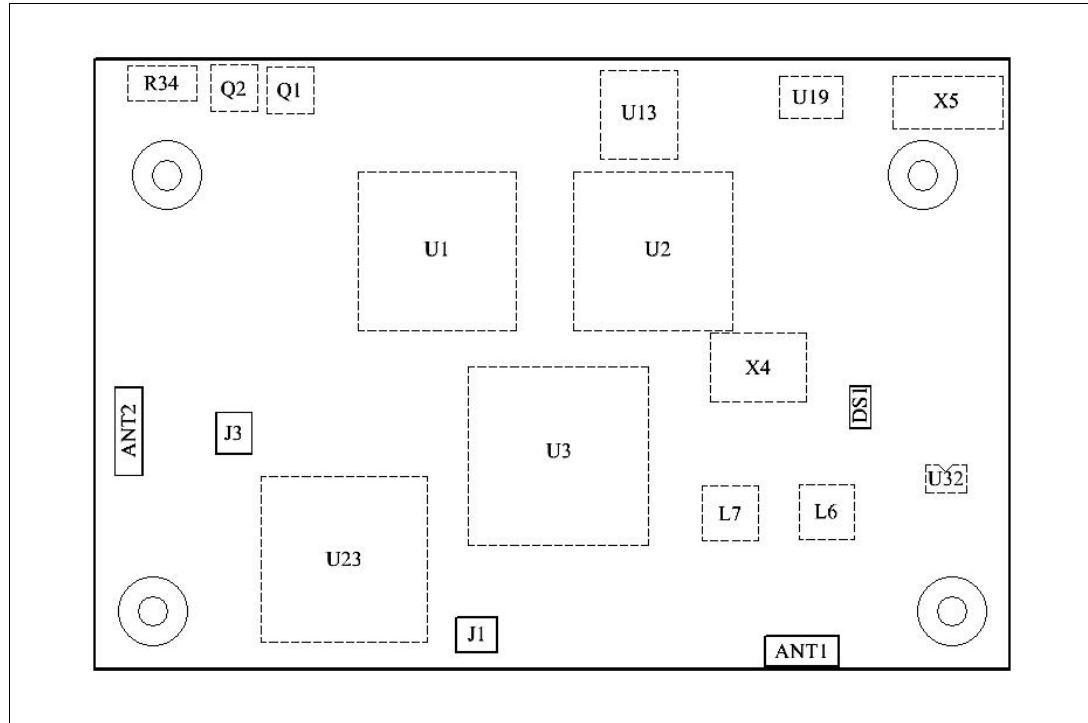
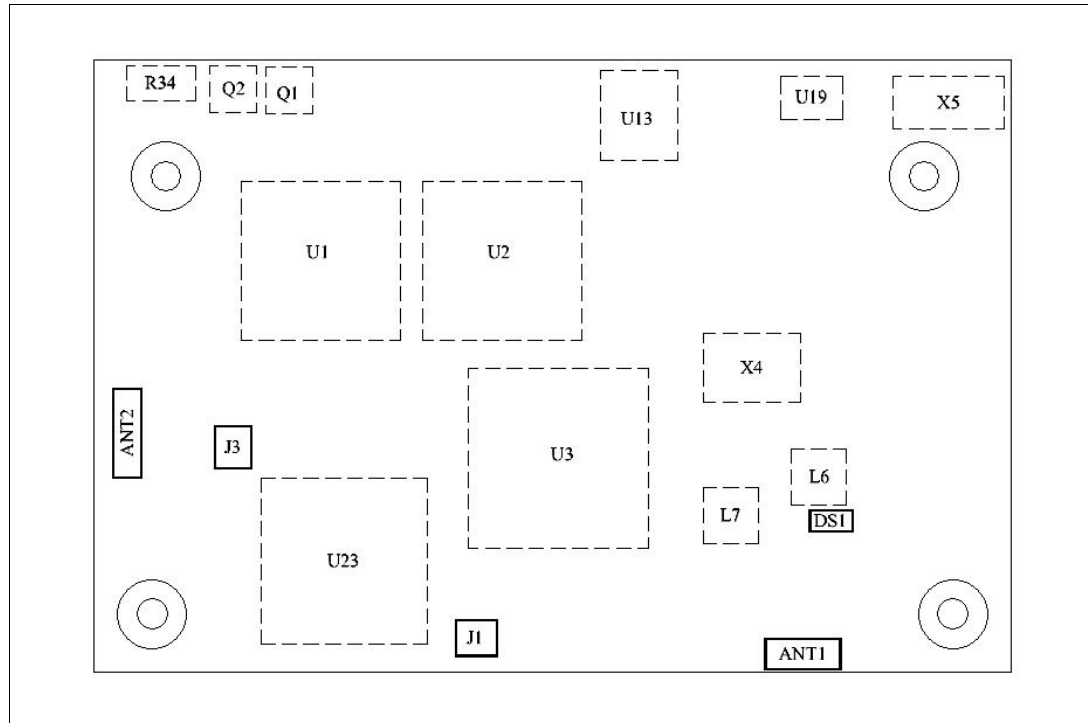
Figure 1 CM-X300 revision 1.6, Top View

Figure 2 CM-X300 previous revisions, Top View


Figure 3 CM-X300 revision 1.6, Bottom as seen from top (X-Ray)

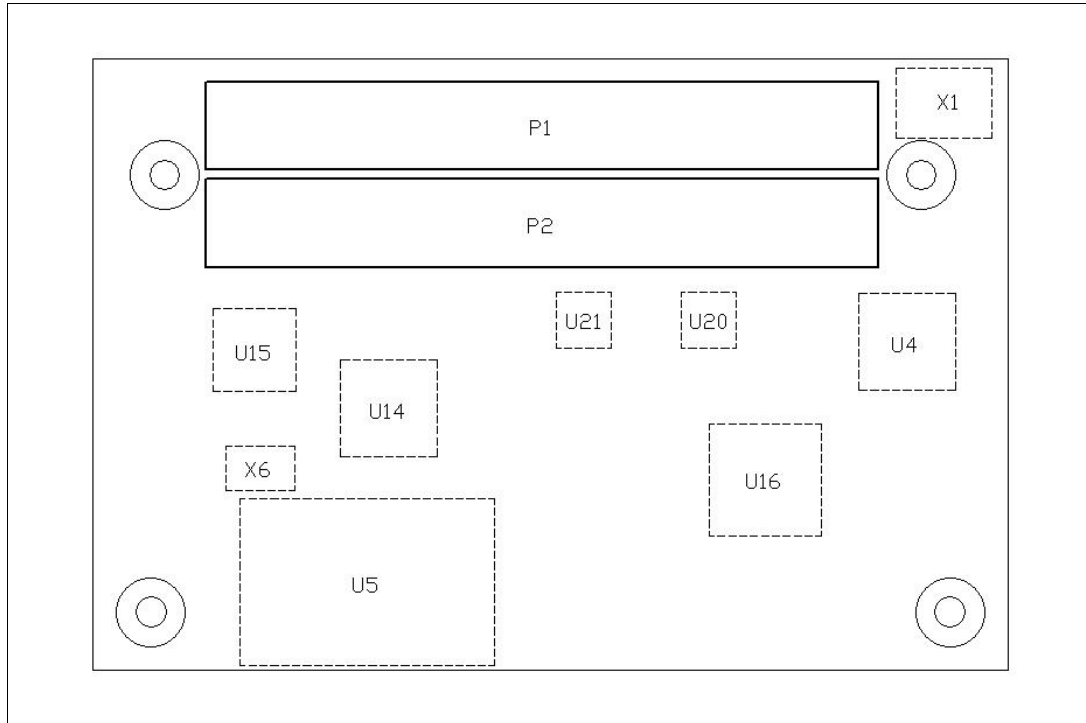
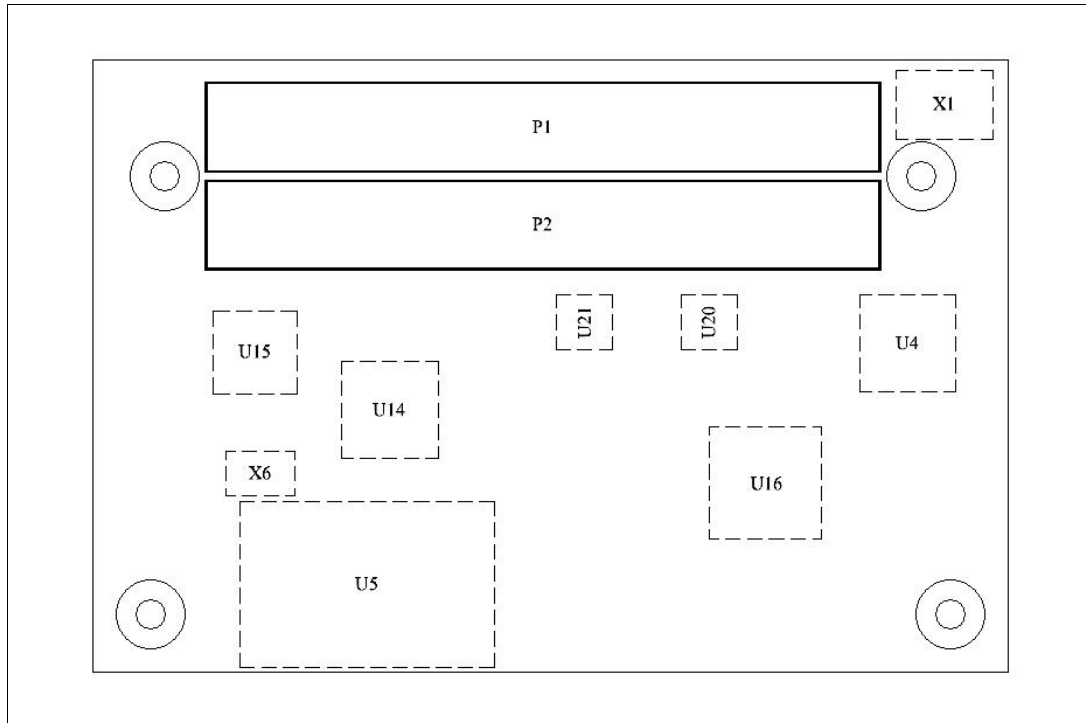


Figure 4 CM-X300 previous revisions, Bottom as seen from top (X-Ray)



Software implications

1. CM-X300 I2C bus addresses b10100011 and b10100010 are occupied by CM-X300 onboard EEPROM component. Customer software should not try to access these addresses on the I2C bus.
2. WLAN and Bluetooth power supplies should always be enabled or disabled together by software. The same applies to all boards where issue described in CM-X300 ECN-AM20101205-001 is fixed with the proposed hardware workaround.

Hardware implications

1. Customer base-board design should not contain an I2C device at I2C addresses b10100011 and b10100010 because these addresses are now occupied by an I2C EEPROM onboard CM-X300.
2. CM-X300-C624M board power consumption is now reduced to ~7mA when CM-X300 is in low power mode.