

ETERNA (TM) CASTELLATED MOTE REFERENCE DESIGN

Content:

1. Title Page
2. Eterna Mote-on-a-Chip
3. Castellations

Notes:

1. Assembly Options:
 - 1.a) X1 & X5: installed crystals (32kHz and 20 MHz resp.)
 - 1.b) R12 TCK termination not installed
2. Associated Documents
 - 2.a) PCB FAB: 600-0180
 - 2.b) GERBERS: 610-0180
 - 2.c) FAB DWG: 615-0180
 - 2.d) PCA BOM: 700-0180
 - 2.e) ASSY DWG: 705-0180

Revision History:

Rev	Description	ECO	Author
01	Initial release	1041	RMP
02	Update <ul style="list-style-type: none">- Add UARTC0_RX and UARTC0_RX to SPI header- Update OSKI footprint (QH072AF1A)- Add small crystal footprint- Update crystal P/N w/ controlled T curve- Replace UFL with MMCX connector- Add termination placeholder on SCK	1092	CN
03	Update <ul style="list-style-type: none">- Correct OSKI pn to 808-0009	1112	CN
04	Update <ul style="list-style-type: none">- Add 1/4 Wave Stub- Remove power supply cap tespoints- Add LC antenna PI filter	1114	CN



LTC CONFIDENTIAL - FOR CUSTOMER USE ONLY

CUSTOMER NOTICE

LINEAR TECHNOLOGY HAS MADE A BEST EFFORT TO DESIGN A CIRCUIT THAT MEETS CUSTOMER-SUPPLIED SPECIFICATIONS; HOWEVER, IT REMAINS THE CUSTOMER'S RESPONSIBILITY TO VERIFY PROPER AND RELIABLE OPERATION IN THE ACTUAL APPLICATION. COMPONENT SUBSTITUTION AND PRINTED CIRCUIT BOARD LAYOUT MAY SIGNIFICANTLY AFFECT CIRCUIT PERFORMANCE OR RELIABILITY. CONTACT LINEAR TECHNOLOGY APPLICATIONS ENGINEERING FOR ASSISTANCE.

THIS CIRCUIT IS PROPRIETARY TO LINEAR TECHNOLOGY AND IS SUPPLIED FOR USE WITH LINEAR TECHNOLOGY PARTS.

CONTRACT NO.
APPROVALS
DRAWN:
CHECKED:
APPROVED:
ENGINEER:
DESIGNER:



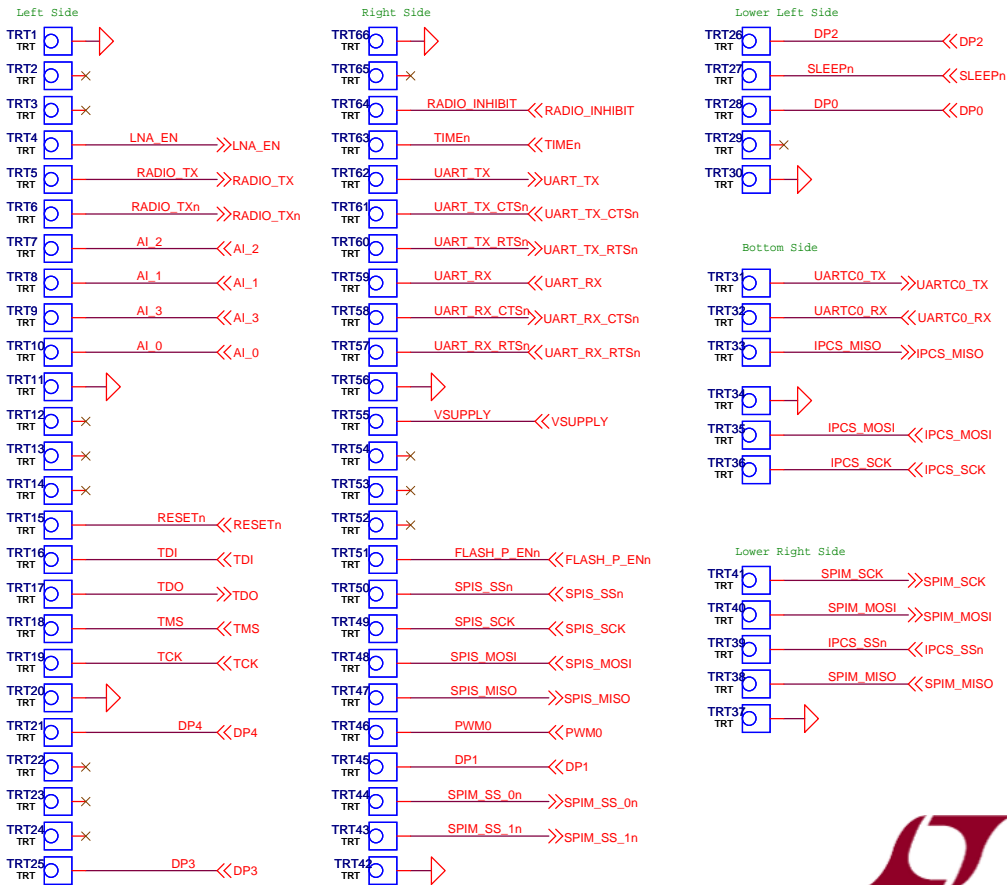
A Linear Technology Company


1630 McCarthy Blvd. Phone: (408)432-1900
Milpitas, CA 95035 Fax: (408)434-0507

TITLE:
PCA SCH., OSKI CASTELLATED MOTE, EUPHRATES

SIZE B	DWG NO. 710-0180	REV 04
DATE: Thursday, May 24, 2012		SHEET 1 OF 3

CASTELLATIONS



LTC CONFIDENTIAL - FOR CUSTOMER USE ONLY CUSTOMER NOTICE LINEAR TECHNOLOGY HAS MADE A BEST EFFORT TO DESIGN A CIRCUIT THAT MEETS CUSTOMER-SUPPLIED SPECIFICATIONS; HOWEVER, IT REMAINS THE CUSTOMER'S RESPONSIBILITY TO VERIFY PROPER AND RELIABLE OPERATION IN THE ACTUAL APPLICATION. COMPONENT SUBSTITUTION AND PRINTED CIRCUIT BOARD LAYOUT MAY SIGNIFICANTLY AFFECT CIRCUIT PERFORMANCE OR RELIABILITY. CONTACT LINEAR TECHNOLOGY APPLICATIONS ENGINEERING FOR ASSISTANCE. THIS CIRCUIT IS PROPRIETARY TO LINEAR TECHNOLOGY AND IS SUPPLIED FOR USE WITH LINEAR TECHNOLOGY PARTS.		CONTRACT NO.	 A Linear Technology Company 1630 McCarthy Blvd. Milpitas, CA 95035 Phone: (408)432-1900 Fax: (408)434-0507	
		APPROVALS		
		DRAWN:		
		CHECKED:		
		APPROVED:		
		ENGINEER:	TITLE: PCA SCH., OSKI CASTELLATED MOTE, EUPHRATES	
		DESIGNER:		
		SIZE B	DWG NO. 710-0180	REV 04
		DATE: Friday, May 18, 2012	SHEET 3 OF 3	