

PCA SCH, MOTHERBOARD, CAMANCHE, MOTE VERSION

Content:

- 1. Title Page
- 2. Eterna
- 3. Memory
- 4. Connectors, LED & Power

Notes:

1. Associated Documents



BOM
700-0216-0501 REV2



ASY DWG
705-0216-0001 REV1



PCB FAB
600-0216-0001 REV1

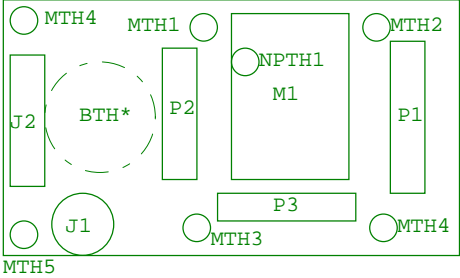
2. Assembly Options

- 1. External Memory or not
- 2. Russian or Canadian or uModule Oski based
- 3. PA_EXT_SET R value

Revision History:

Rev	Description	ECO	Author
01	Initial release, from 700-0216-0101 Rev 2	1263	Ric Peregrino
02	Load RADIO_INHIBIT and SLEEPn pulls	1365	Christophe Niglio

Parts placement, not to scale



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:

dust networks™

A Linear Technology Company

1630 McCarthy Blvd.
Milpitas, CA 95035

Phone: (408)432-1900
Fax: (408)434-0507

TITLE: **DC9018B-C**
PCA SCH, MOTHERBOARD, CAMANCHE

SIZE **B**

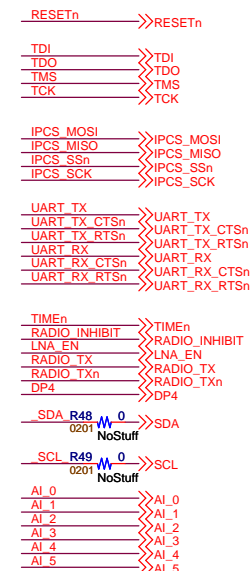
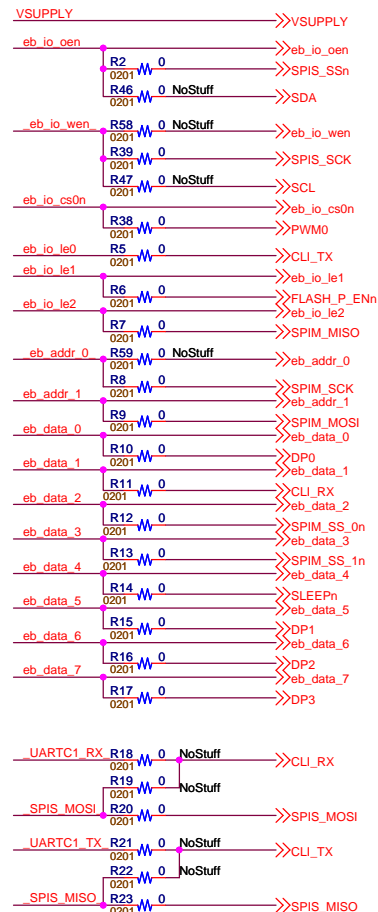
DWG NO. **710-0216-0501**

REV **02**

DATE: **Tuesday, February 25, 2014**

SHEET **1** OF **4**

Place all R's on this page
as close as possible to M1



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

A	
.	DRAWN:

5	CHECKED:
---	----------

CHECKED.

APPROVED

ENGINEER:

E.	DESIGNER:
----	-----------



dust
networks™

A Linear Technology Company

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

TITLE:	DC9018B-C
	PCA SCH. MOTHERBOARD, CAMANCHE

SIZE	B
------	---

DWG NO.	710-0216-0501
---------	---------------

REV
02

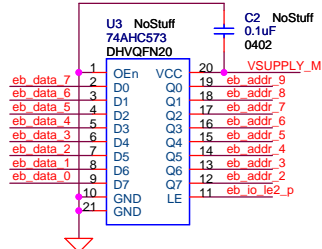
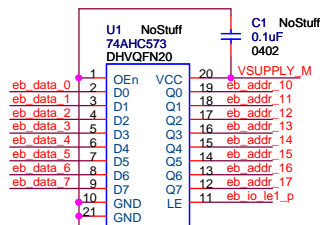
DATE: Tuesday, March 18, 2014

SHEET 2 OF 4

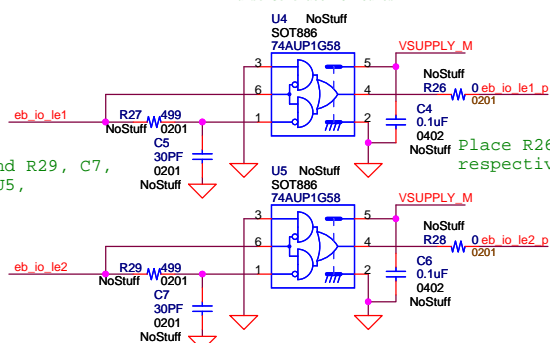
25 mil traces for VSUPPLY_M

VSUPPLY << VSUPPLY_M

eb_io_cs0n << eb_io_cs0n
eb_io_le1 << eb_io_le1
eb_io_le2 << eb_io_le2
eb_addr_0 << eb_addr_0
eb_addr_1 << eb_addr_1
eb_data_0 << eb_data_0
eb_data_1 << eb_data_1
eb_data_2 << eb_data_2
eb_data_3 << eb_data_3
eb_data_4 << eb_data_4
eb_data_5 << eb_data_5
eb_data_6 << eb_data_6
eb_data_7 << eb_data_7
eb_io_oe1 << eb_io_oe1
eb_io_oe2 << eb_io_oe2
eb_io_wen << eb_io_wen

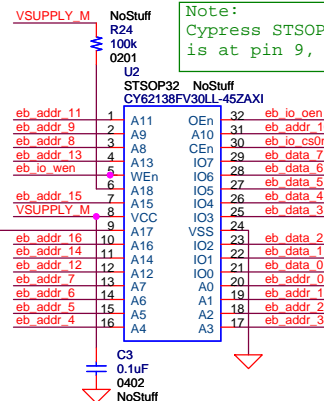


Pulse Generator Circuits



Place R27, C5, and R29, C7, close to U4 and U5, respectively

Place R26 and R28 close to U4 and U5, respectively



Note:
Cypress STSOP-32 pin 1
is at pin 9, or A17

Stuff R25 for 256Kx8

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25

eb_addr_17 R25



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: **DC9018B-C**
PCA SCH, MOTHERBOARD, CAMANCHE

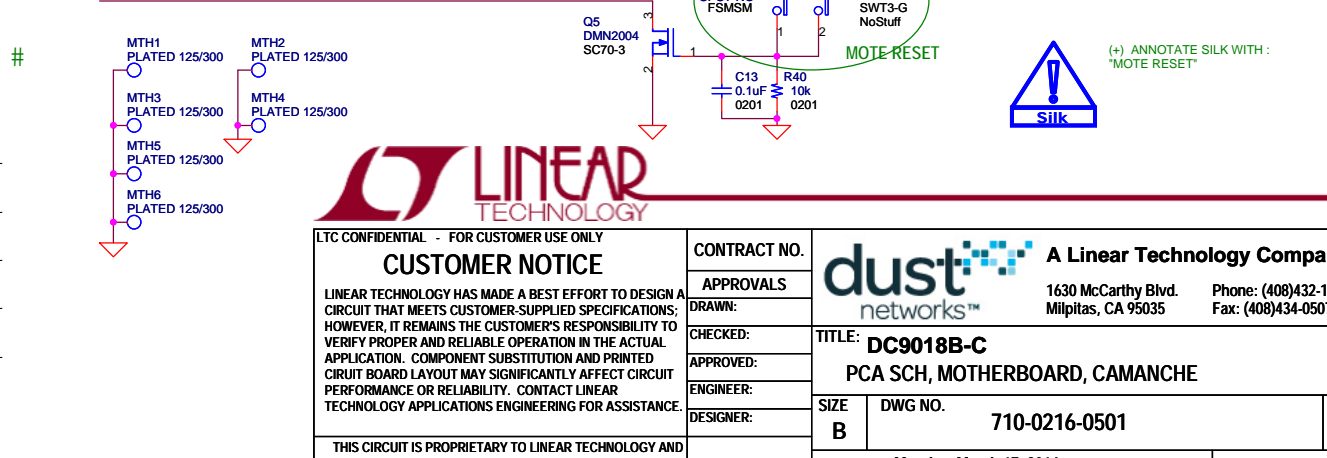
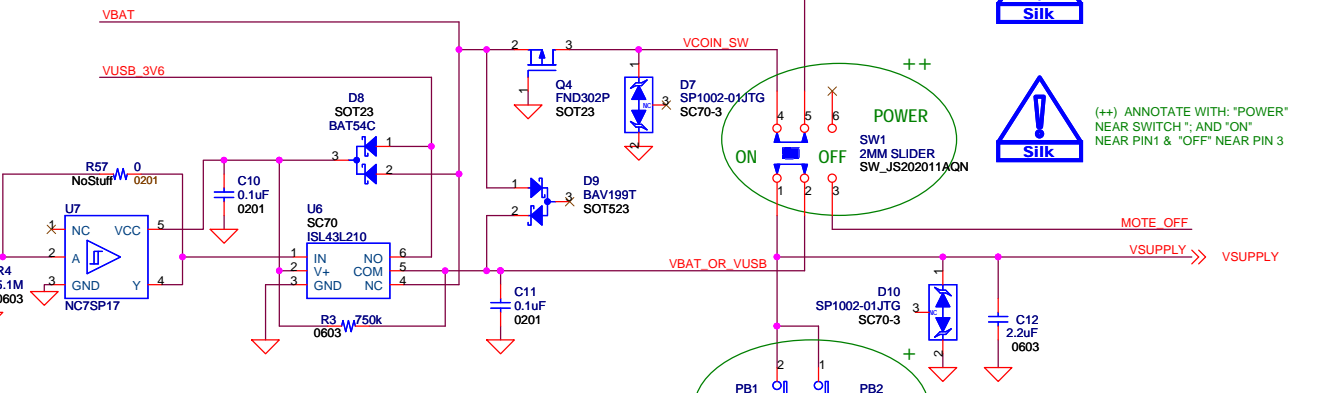
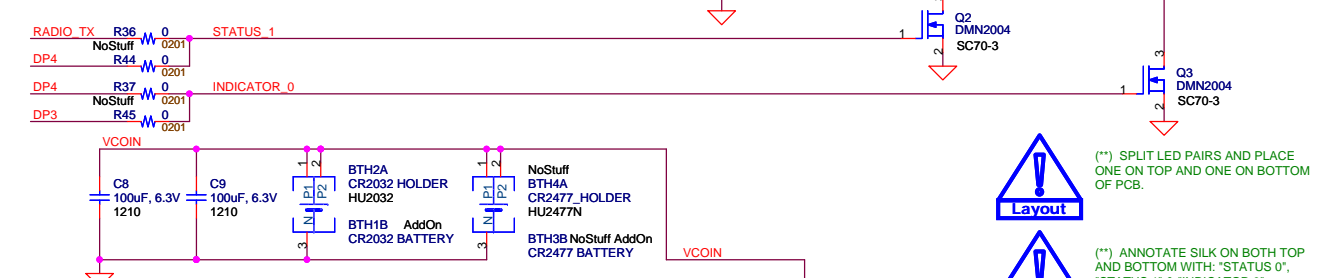
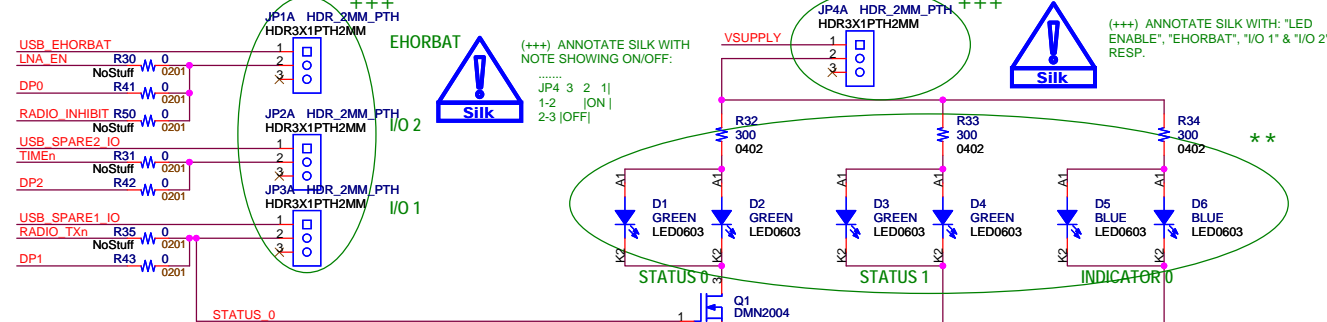
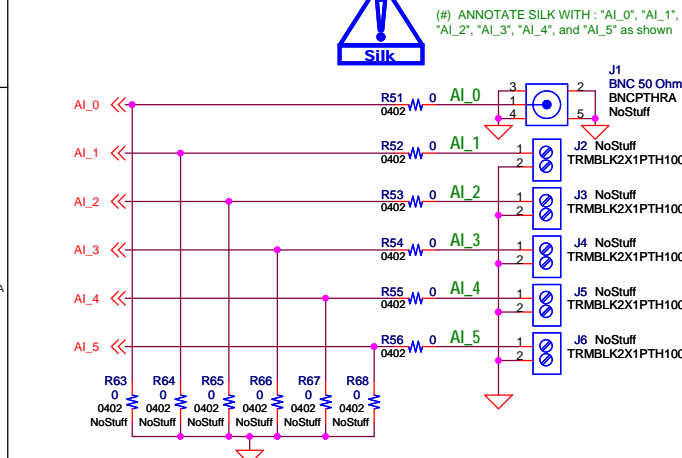
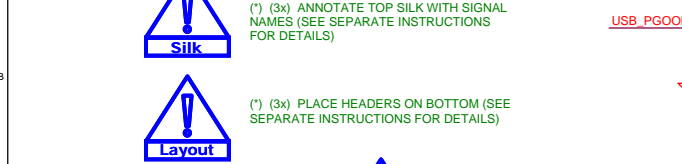
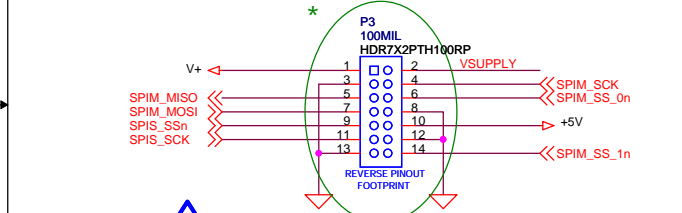
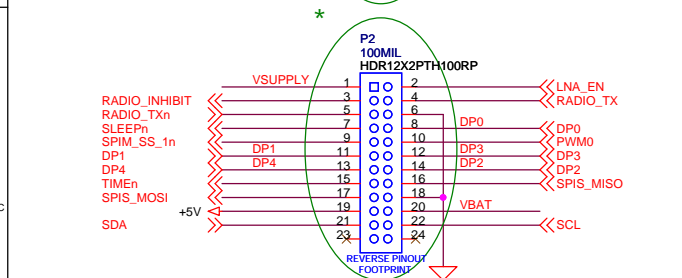
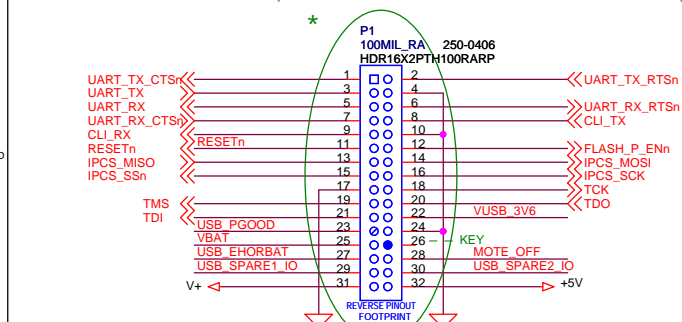
SIZE B DWG NO. 710-0216-0501

DATE: Monday, March 17, 2014

SHEET 3 OF 4

REV 02

CONNECTORS, VISUAL INDICATORS, POWER




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. Milpitas, CA 95035		Phone: (408)432-1900 Fax: (408)434-0507	
TITLE: DC9018B-C PCA SCH, MOTHERBOARD, CAMANCHE			
SIZE B	DWG NO. 710-0216-0501		REV 02
DATE: Monday, March 17, 2014		SHEET 4 OF 4	