KSZ8873FLL 64LQFP reference design Revision 1.0

REVISION HISTORY

DATE:	DESCRIPTION	REVISION
04/30/2009	Initial release	1.0

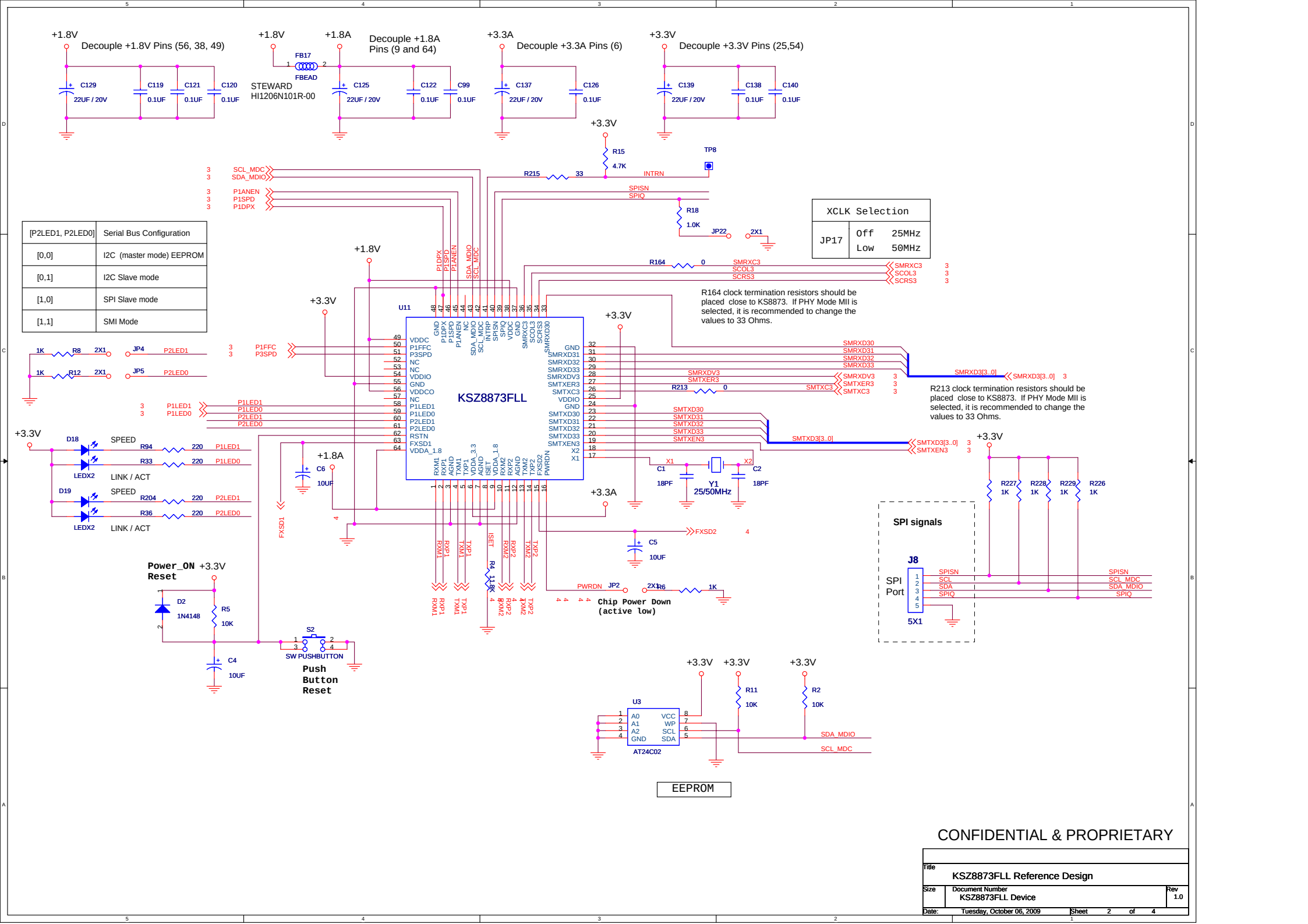
Table of Contents

PAGE 01: Revision History
PAGE 02: KSZ8873FLL_LQFP Device
PAGE 03: Device Configuration/Strap and MII Interface
PAGE 04: Fiber Interface
PAGE 05: Power

KENDIN OPERATIONS

CONFIDENTIAL & PROPRIETARY

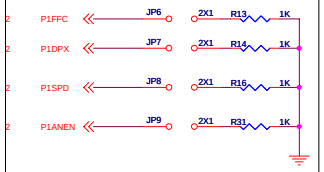
Title: KS8873FLL Reference Design		
Size	Document Number: Revision History	Rev: 1.0
Date: Thursday, May 28, 2009	Sheet 1 of 5	



CONFIDENTIAL & PROPRIETARY

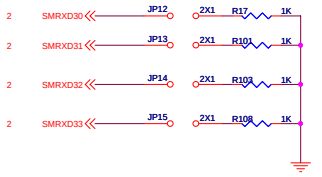
Title	KSZ8873FLL Reference Design		
Size	Document Number: KSZ8873FLL Device		Rev: 1.0
Date: Tuesday, October 06, 2009	Sheet 2 of 4		

PORT 1



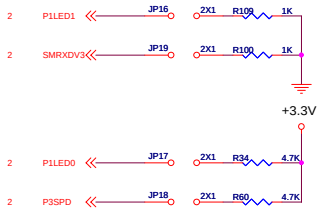
JP6	Force Flow Control Off = ENABLE Low = DISABLE
JP7	Force Full/Half Off = Full Duplex Low = Half Duplex
JP8	Force Speed Off = 100BaseTX Low = 10BaseT
JP9	Auto-negotiation Off = Enable Low = Disable

PORT 2



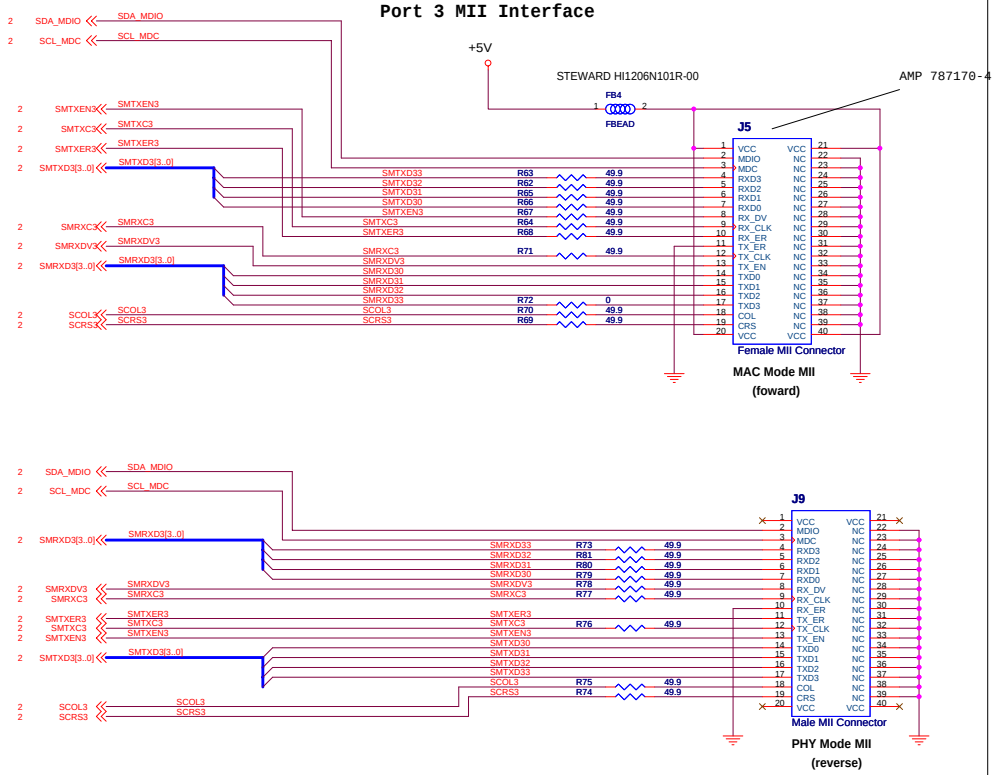
JP12	Force Flow Control Off = ENABLE Low = DISABLE
JP13	Force Full/Half Off = Full Duplex Low = Half Duplex
JP14	Force Speed Off = 100BaseTX Low = 10BaseT
JP15	Auto-negotiation Off = ENABLE Low = DISABLE

PORT 3



JP16	Force Flow Control Off = ENABLE Low = DISABLE
JP17	Force Full/Half High = Half Duplex Off = Full Duplex
JP18	Force Speed High = 10BaseT Off = 100BaseTX
JP19	MII Mode Selection Off = PHY mode Low = MAC mode

Port 3 MII Interface

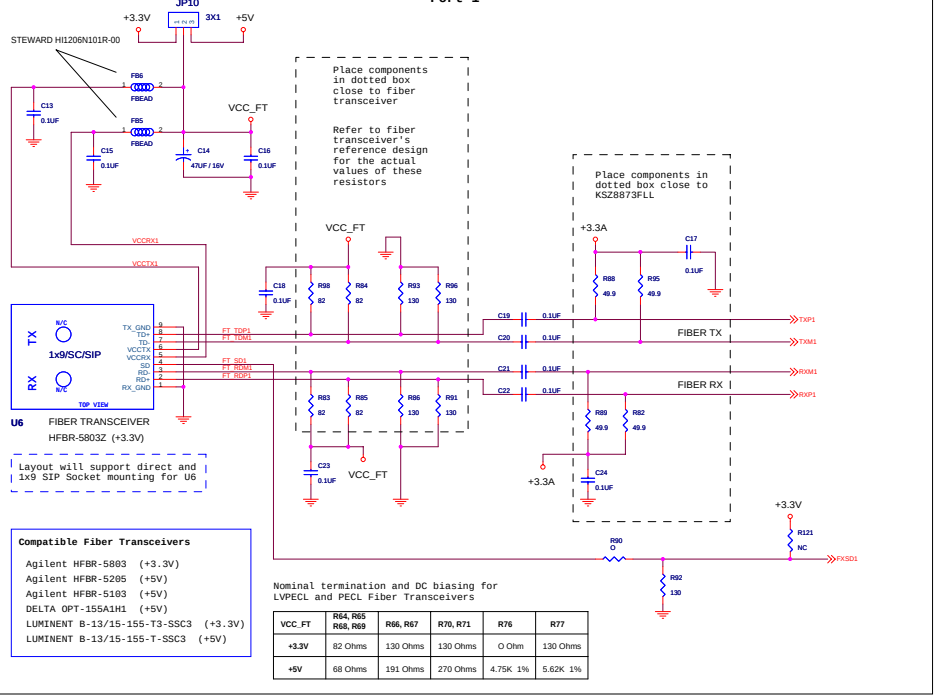


MICREL
KENDIN OPERATIONS

CONFIDENTIAL & PROPRIETARY

Title	KSZ8873FLL Reference Design	
Size	Document Number Device Config/Strap and MII Interface	Rev 1.0
Date: Tuesday, October 06, 2009	Sheet 3 of 4	

Port 1



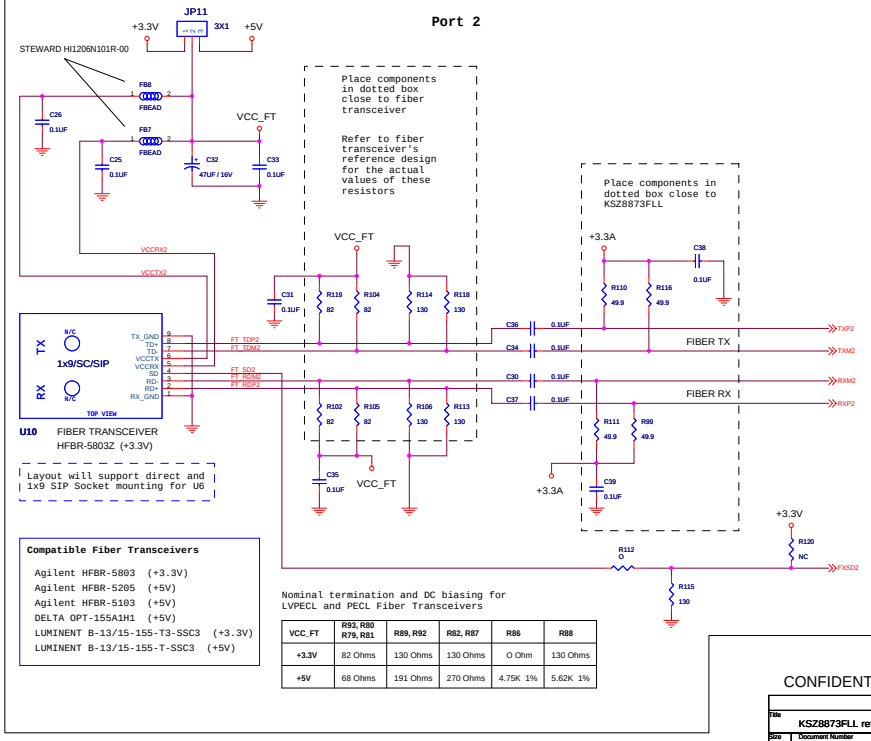
Compatible Fiber Transceivers

- Agilent HFBR-5803 (+3.3V)
- Agilent HFBR-5205 (+5V)
- Agilent HFBR-5103 (+5V)
- DELTA OPT-155A1H1 (+5V)
- LUMINENT B-13/15-155-T3-SSC3 (+3.3V)
- LUMINENT B-13/15-155-T-SSC3 (+5V)

Nominal termination and DC biasing for LVPECL and PECL Fiber Transceivers

VCC_FT	R64, R65 R68, R69	R66, R67	R70, R71	R76	R77
+3.3V	82 Ohms	130 Ohms	130 Ohms	O Ohm	130 Ohms
+5V	68 Ohms	191 Ohms	270 Ohms	4.75K 1%	5.62K 1%

Port 2



Compatible Fiber Transceivers

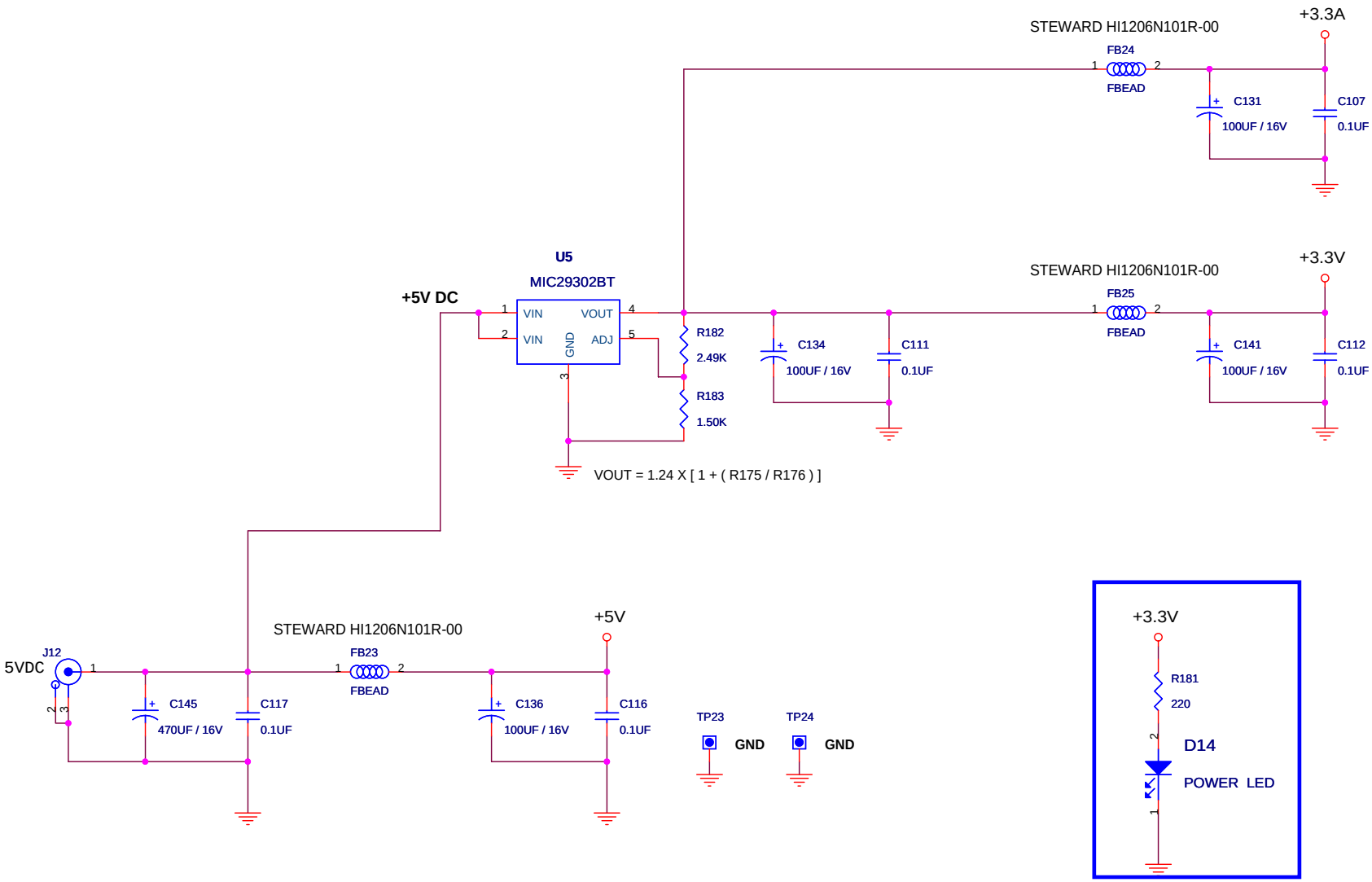
- Agilent HFBR-5803 (+3.3V)
- Agilent HFBR-5205 (+5V)
- Agilent HFBR-5103 (+5V)
- DELTA OPT-155A1H1 (+5V)
- LUMINENT B-13/15-155-T3-SSC3 (+3.3V)
- LUMINENT B-13/15-155-T-SSC3 (+5V)

Nominal termination and DC biasing for LVPECL and PECL Fiber Transceivers

VCC_FT	R93, R80 R79, R81	R89, R92	R82, R87	R86	R88
+3.3V	82 Ohms	130 Ohms	130 Ohms	O Ohm	130 Ohms
+5V	68 Ohms	191 Ohms	270 Ohms	4.75K 1%	5.62K 1%

CONFIDENTIAL & PROPRIETARY

Title	KSZ8873FLL reference design	
Size	Document Number: Fiber Interface	Rev: 1.0
Date: Thursday, May 28, 2009	Sheet 4 of 5	



KENDIN OPERATIONS

Title	KSZ8873FLL Reference Design	
Size	Document Number: Power	Rev: 1.0
Date: Thursday, May 28, 2009	Sheet 5 of 5	