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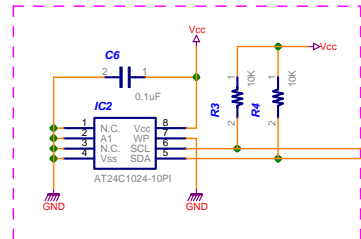
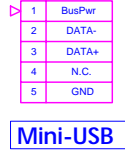
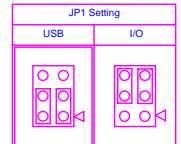
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NANDethno Pocket PIC #1 (ALL)

[Generic Prototyping Board /w PIC18F4450/4550 Type-A]

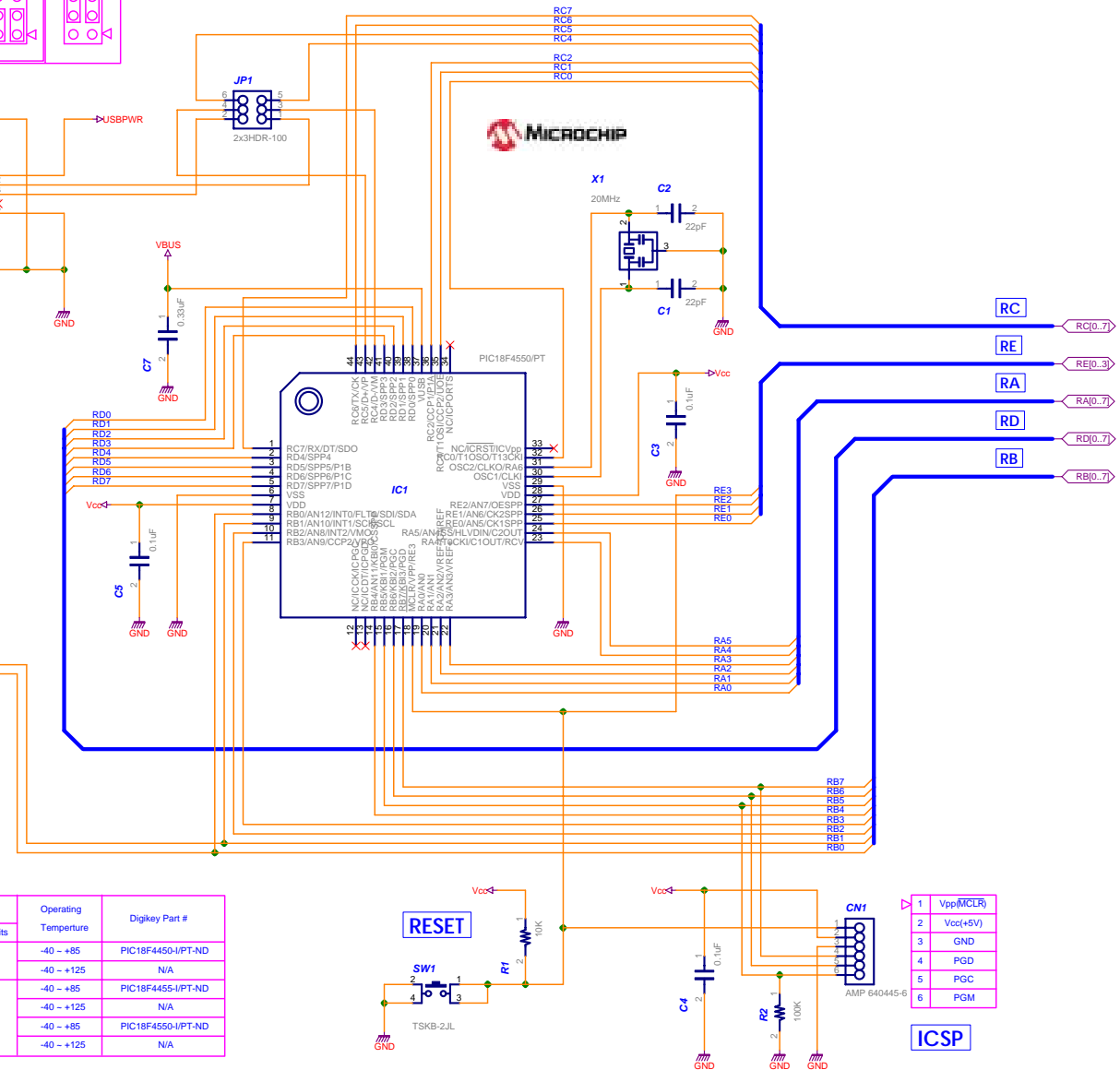
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Creation Date	2011/12/08
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*** MCU Selection Guide ***

Order Part Number	Flash ROM (Bytes)	SRAM (Bytes)	EEPROM (Bytes)	CCP/ECCP (PWM)	SPP	Timers		Operating Temperature	Digkey Part #
						8-Bits	16-Bits		
PIC18F4450-I/PT	16K	768	N/A	1/0	No	1	2	-40 ~ +85	PIC18F4450-I/PT-ND
PIC18F4450-E/PT						-40 ~ +125	N/A		
PIC18F4455-I/PT	24K	2048	256	1/1	Yes	1	3	-40 ~ +85	PIC18F4455-I/PT-ND
PIC18F4455-E/PT						-40 ~ +125	N/A		
PIC18F4550-I/PT	32K					1	3	-40 ~ +85	PIC18F4550-I/PT-ND
PIC18F4550-E/PT						-40 ~ +125	N/A		

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RC

bit-0	RC0/T1OSO/T13CKI	32
bit-1	RC1/T1OSI/CCP2/DOE	35
bit-2	RC2/CCP1/P1A	36
bit-3		
bit-4	RC4/D-/VM	42
bit-5	RC5/D+/VP	43
bit-6	RC6/TXCK	44
bit-7	RC7/RX/DT/SDO	1

RE

bit-0	RE0/AN5/CK1SPP	25
bit-1	RE1/AN6/CK2SPP	26
bit-2	RE2/AN7/OESPP	27
bit-3	MCLR/VPP/RE3	18
bit-4		
bit-5		
bit-6		
bit-7		

RA

bit-0	RA0/AN0	19
bit-1	RA1/AN1	20
bit-2	RA2/AN2/REF-	21
bit-3	RA3/AN3/REF+	22
bit-4	RA4/T0CLR/RCV	23
bit-5	RA5/AN4/HLVDIN/IC2OUT	24
bit-6		
bit-7		

RD

bit-0	RD0/SSP0	38
bit-1	RD1/SSP1	39
bit-2	RD2/SSP2	40
bit-3	RD3/SSP3	41
bit-4	RD4/SSP4	2
bit-5	RD5/SSP5/P1B	3
bit-6	RD6/SSP6/P1C	4
bit-7	RD7/SSP7/P1D	5

RB

bit-0	RB0/AN12/INT0	8
bit-1	RB1/AN10/INT1	9
bit-2	RB2/AN8/INT2/VMO	10
bit-3	RB3/AN9/VPO	11
bit-4	RB4/AN11/KBIO/CSSPP	14
bit-5	RB5/KB1/PGM	15
bit-6	RB6/KB2/PGC	16
bit-7	RB7/KB3/PGD	17

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NANDethno Pocket PIC #1

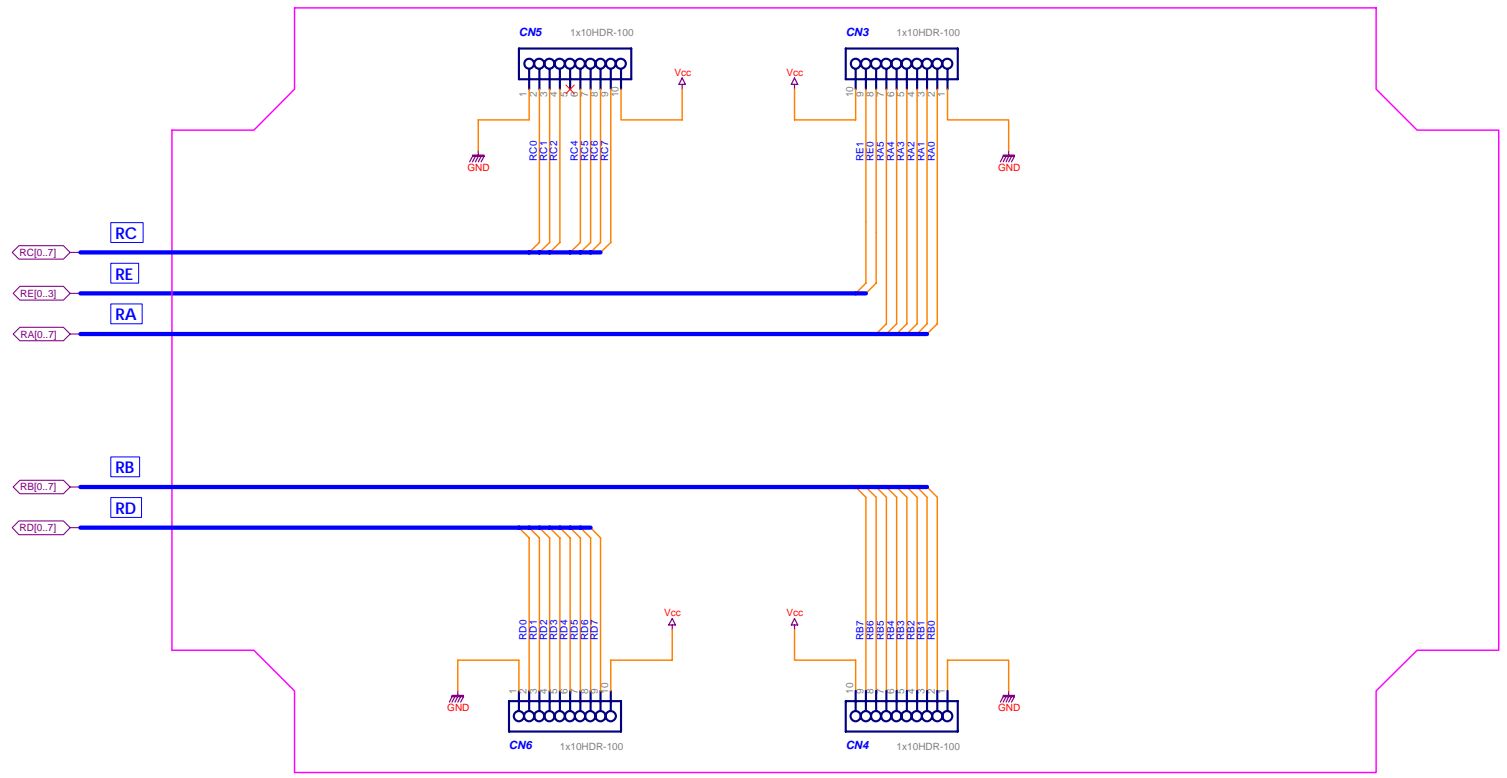
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NANDethno Pocket PIC #1 (1/3)
 [Generic Prototyping Board /w PIC18F4450/4550 Type-A]

1	GND
2	RC0T10S0T13CKI
3	RC1T10S1CCP2(1)UOE
4	RC2CCP1PIA
5	Reserved (No Connection)
6	RC4D-WM
7	RC5D-W/P
8	RC6T-XCK
9	RC7R-XD7/SD0
10	Vcc(+3.3V/+5.0V)

10	Vcc(+3.3V/+5.0V)
9	RE7/AN6CK2SPP
8	RE0/AN5CK1SPP
7	RA5/AN4HLVDN
6	RA1TCLURCY
5	RA3/AN3VREF+
4	RA2/AN2VREF-
3	RA1/AN1
2	RA0/AN0
1	GND



1	GND
2	RD0/SSP0
3	RD1/SSP1
4	RD2/SSP2
5	RD3/SSP3
6	RD4/SSP4
7	RD5/SSP4/F1B
8	RD6/SSP4/F1C
9	RD7/SSP7/F1D
10	Vcc(+3.3V/+5.0V)

10	Vcc(+3.3V/+5.0V)
9	RB7/KB1P/SD
8	RB6/KB1P/PC
7	RB5/KB1P/PGM
6	RB4/AN11/BIU
5	RB3/AN10/VPO
4	RE2/AN8/INT2/VMO
3	RB1/AN9/INT1
2	RB0/AN2/INT0
1	GND

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NANDethno Pocket PIC #1 (2/3)

[Generic Prototyping Board /w PIC18F4450/4550 Type-A]

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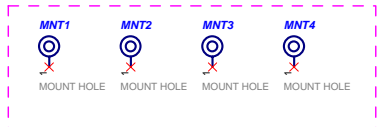
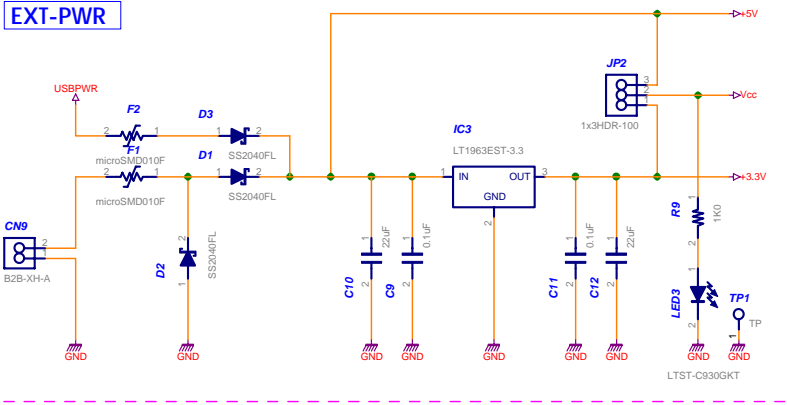


*** 3.3V LDO Regulator IC Selection Guide ***

Order Part Number	Dropout Voltage	Output Current	MAX. Input Voltage
LT1129CST-3.3#PBF	400mV	700mA	+/-30V
LT1129IST-3.3#PBF	400mV	700mA	+/-30V
LT1963EST-3.3#PBF	340mV	1.5A	+/-20V
LT1963AEST-3.3#PBF	340mV	1.5A	+/-20V

JP2 Setting	Supply Voltage (Vcc)
	5V (USBPWR) 3.3V Reg. required
	3.3V 3.3V Reg. not required

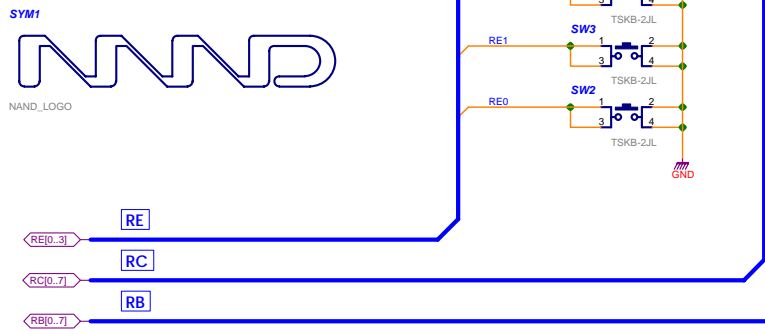
EXT-PWR



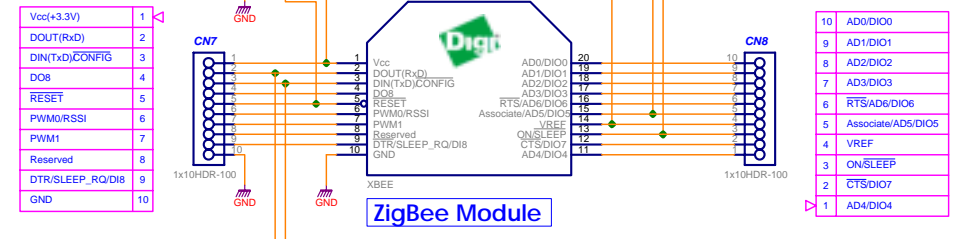
Mounting Holes



NAND_LOGO

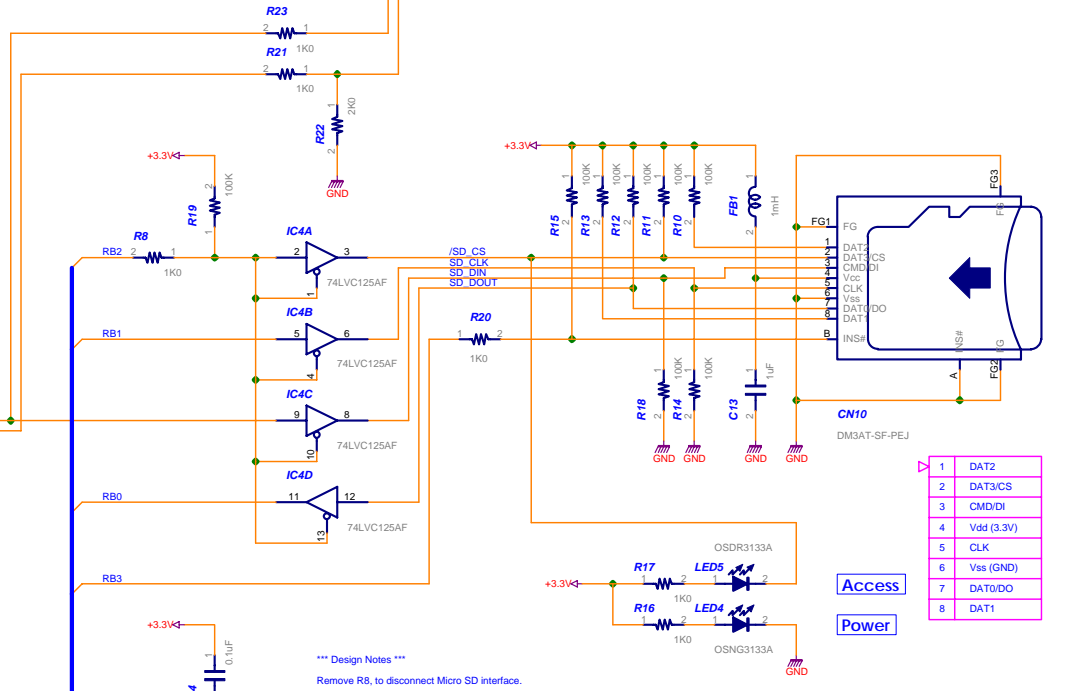


*** Design Notes ***
For using XBEE module, supply voltage (Vcc) had better be set regulated 3.3V.



Pin	Signal
1	Vcc(+3.3V)
2	DOUT(RxD)
3	DIN(TxD)/CONFIG
4	DO8
5	RESET
6	PWM0/RSSI
7	PWM1
8	Reserved
9	DTR/SLEEP_RQ/DI8
10	GND

Pin	Signal
10	AD0/DIO0
9	AD1/DIO1
8	AD2/DIO2
7	AD3/DIO3
6	RTS/ADe/DIO6
5	Associate/AD5/DIO5
4	VREF
3	ONSLEEP
2	CTS/DIO7
1	AD4/DIO4



*** Design Notes ***
Remove R8, to disconnect Micro SD interface.

Micro-SD Card Connector

Pin	Signal
1	DAT2
2	DAT3/CS
3	CMD/DI
4	Vdd (3.3V)
5	CLK
6	Vss (GND)
7	DAT0/DO
8	DAT1

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[Generic Prototyping Board /w PIC18F4450/4550 Type-A]

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