

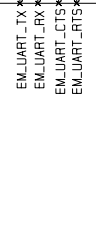
USB MCU IO
jumpers

Default setting:

- 1-2: open
- 3-4: open
- 5-6: open
- 7-8: open
- 9-10: mount
- 11-12: mount
- 13-14: mount
- 15-16: mount
- 17-18: mount
- 19-20: mount
- 21-22: mount
- 23-24: mount
- 25-26: mount
- 27-28: mount
- 29-30: mount
- 31-32: mount
- 33-34: mount
- 35-36: mount
- 37-38: mount

RS-232

- RS232 driver
- RS232 port
- On/Off jumper



Sheet 6

USB Interface

Sheet 2

- CC2511
- CC2511 debug
- USB port

DBG_DD_DIR
USB_UART_RTS
USB_UART_CTS
USB_UART_RX
USB_UART_TX
USB_SNIFF_DATA
USB_SNIFF_CLK
USB_MISO2
USB_DBG_DC
USB_DBG_DD
USB_CS
USB_SCLK
USB_MOS1
USB_MISO
USB_LCD_CS
USB_LCD_MODE
USB_LCD_FLASH_RESET
JOY_LEVEL
JOY_MOVE

VBUS
+3.3V USB
VCC_EM
PS_PWR_SNOOZE
VCC_IO
VCC_LCD
VCC_FLASH

Power Supply

Sheet 4

- Regulators
- Power jumpers
- Battery

VBUS
+3.3V USB
VCC_EM
PS_PWR_SNOOZE
VCC_IO
VCC_LCD
VCC_FLASH

User Interface

Sheet 5

- LCD
- Flash
- Joystick
- Potmeter
- Buttons
- LEDs

USB_EM_RESET
VCC_FLASH
VCC_LCD
VCC_IO
VCC_EM
IO_EM_RESET

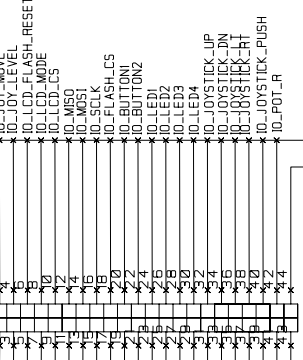
EM Interface

Sheet 3

- EM connection
- External Soc debug

EM_JOY_MOVE
EM_JOY_LEVEL
EM_LCD_FLASH_RESET
EM_LCD_MODE
EM_LCD_CS
EM_MISO
EM_MOS1
EM_SCLK
EM_FLASH_CS
EM_BUTTON1
EM_BUTTON2
EM_LED1
EM_LED2
EM_LED3
EM_LED4
EM_JOYSTICK_UP
EM_JOYSTICK_DN
EM_JOYSTICK_LT
EM_JOYSTICK_RT
EM_JOYSTICK_PUSH
EM_POT_R
EM_CS
EM_DBG_DD
EM_DBG_DC
EM_SNIFF_SFID
EM_MISO2
EM_SNIFF_CLK
EM_SNIFF_DATA
EM_UART_TX
EM_UART_RX
EM_UART_CTS
EM_UART_RTS
DBG_DD_DIR
EM_RESET
PS_PWR_SNOOZE
VCC_EM

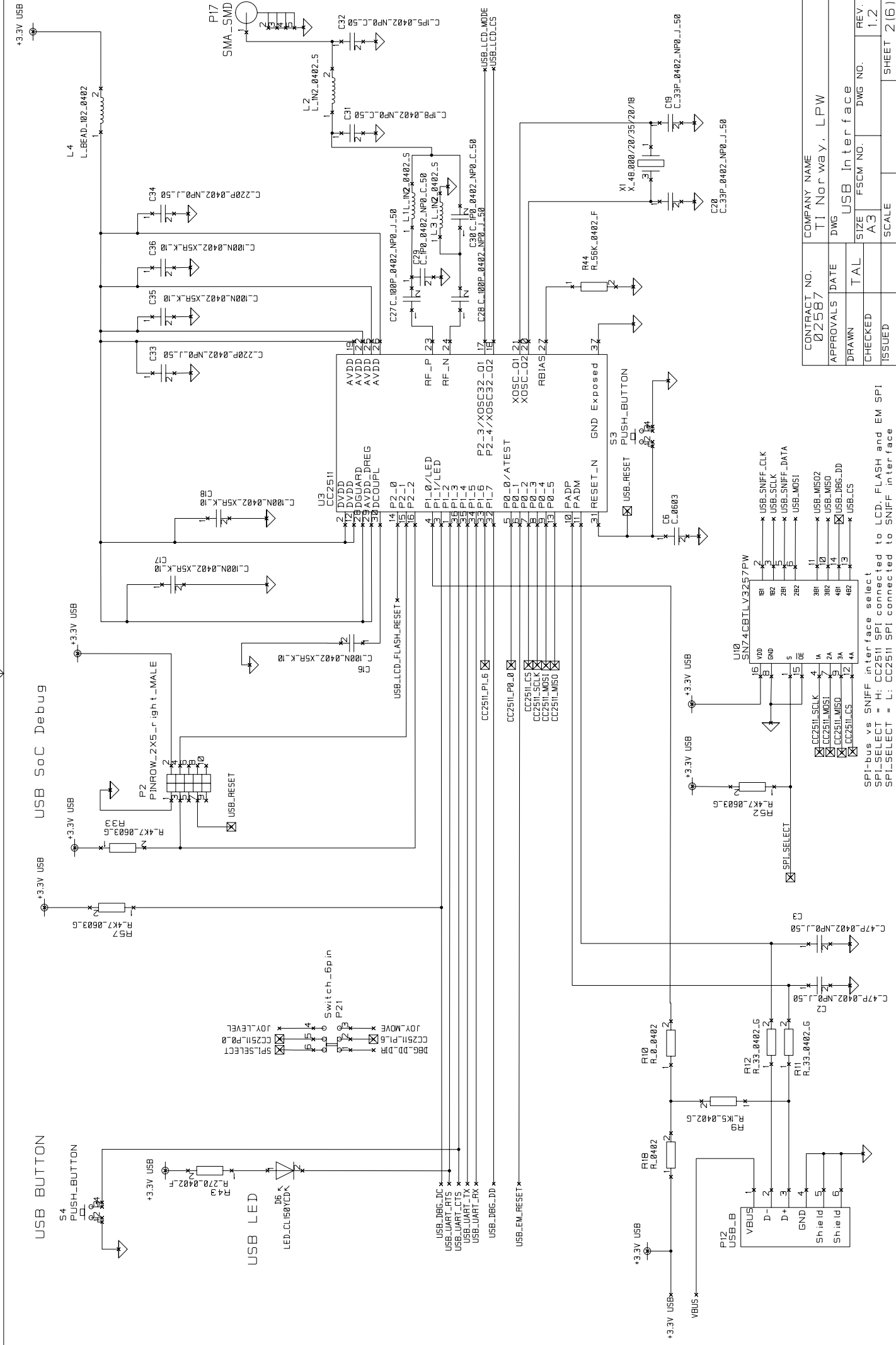
P4 PINROW 2X22



FIDUCIAL_MARK FIDUCIAL_MARK FIDUCIAL_MARK
FM1 FM3 FM5

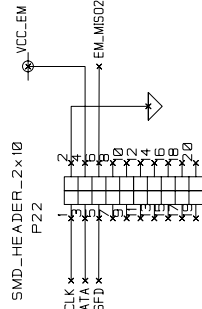
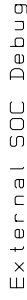
FIDUCIAL_MARK FIDUCIAL_MARK FIDUCIAL_MARK
FM4 FM6

CONTRACT NO.		COMPANY NAME			
02587		T1 Norway, LPW			
APPROVALS		DWG			
DRAWN		SmartRF05EB Top Level			
CHECKED	TAL	SIZE	FSCM NO.	DWG NO.	REV.
		A3			1.2
ISSUED		SCALE		SHEET 1(6)	



CONTRACT NO.		COMPANY NAME	
02587		T1 Norway, LPW	
APPROVALS DATE		DWG	
DRAWN		USB Interface	
CHECKED		SCALE	
ISSUED		SHEET 2(6)	

SPL-select = H: CC2511 SPI connected to LCD, FLASH and EM SPI	
SPL-select = L: CC2511 SPI connected to SNIFF interface	



PINROW_2X10		PINROW_2X10	
P1B		P20	
EM.BUTTON1	2	PS_PMP_SNDDZE	2
EM.LED1	3	VCC-EW	3
EM.LED2	4	EM_JOYSTICK_UP	4
EM.LED3	5	EM_JOYSTICK_LT	5
EM.LED4	6	EM.RESET	6
EM.JOY_TX	7	EM.LCD_CS	7
EM.UART_TX	8	EM.JOY_MOVE	8
EM.DBG_DC	9		
EM.DBG_DD	10		
EM.DBG_DP	11		
EM.LCD_FLASH_READ	12		
EM.LCD_MODE	13		
EM.LCD_FLASH_WRITE	14		
EM.LCD_FLASH_READ	15		
EM.JOY_LEVEL	16		
EM.POT_R	17		
EM.MISO	18		
EM.BUTTON2	19		
EM.UART_RX	20		
EM.DBG_DP	21		
EM.DBG_DD	22		
EM.DBG_DC	23		
EM.LCD_FLASH_READ	24		
EM.LCD_MODE	25		
EM.LCD_FLASH_WRITE	26		
EM.JOY_LEVEL	27		
EM.POT_R	28		
EM.MISO	29		
EM.BUTTON1	30		
EM.LED1	31		
EM.LED2	32		
EM.LED3	33		
EM.LED4	34		
EM.JOY_TX	35		
EM.UART_TX	36		
EM.DBG_DC	37		
EM.DBG_DD	38		
EM.DBG_DP	39		
EM.LCD_FLASH_READ	40		
EM.LCD_MODE	41		
EM.LCD_FLASH_WRITE	42		
EM.JOY_LEVEL	43		
EM.POT_R	44		
EM.MISO	45		
EM.BUTTON2	46		
EM.UART_RX	47		
EM.DBG_DP	48		
EM.DBG_DD	49		
EM.DBG_DC	50		
EM.LCD_FLASH_READ	51		
EM.LCD_MODE	52		
EM.LCD_FLASH_WRITE	53		
EM.JOY_LEVEL	54		
EM.POT_R	55		
EM.MISO	56		
EM.BUTTON1	57		
EM.LED1	58		
EM.LED2	59		
EM.LED3	60		
EM.LED4	61		
EM.JOY_TX	62		
EM.UART_TX	63		
EM.DBG_DC	64		
EM.DBG_DD	65		
EM.DBG_DP	66		
EM.LCD_FLASH_READ	67		
EM.LCD_MODE	68		
EM.LCD_FLASH_WRITE	69		
EM.JOY_LEVEL	70		
EM.POT_R	71		
EM.MISO	72		
EM.BUTTON2	73		
EM.UART_RX	74		
EM.DBG_DP	75		
EM.DBG_DD	76		
EM.DBG_DC	77		
EM.LCD_FLASH_READ	78		
EM.LCD_MODE	79		
EM.LCD_FLASH_WRITE	80		
EM.JOY_LEVEL	81		
EM.POT_R	82		
EM.MISO	83		
EM.BUTTON1	84		
EM.LED1	85		
EM.LED2	86		
EM.LED3	87		
EM.LED4	88		
EM.JOY_TX	89		
EM.UART_TX	90		
EM.DBG_DC	91		
EM.DBG_DD	92		
EM.DBG_DP	93		
EM.LCD_FLASH_READ	94		
EM.LCD_MODE	95		
EM.LCD_FLASH_WRITE	96		
EM.JOY_LEVEL	97		
EM.POT_R	98		
EM.MISO	99		
EM.BUTTON2	100		

Debug connectors mirror EM connectors with a few exceptions.
 Exceptions: Pins 1, 2 and 3 left unconnected, GND connected to pin 20.
 Reason for exception is to be able to connect an Agilent logic analyzer probe directly to the debug connector.

CONTRACT NO. 02587	COMPANY NAME TJ Norway, LPW			
APPROVALS	DATE	DWG		
DRAWN	TAL	EM Interface		
CHECKED		SIZE	FSCM NO.	DWG NO.
ISSUED		A3		REV. 1.2
		SCALE		SHEET 316

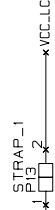
VCC-EM jumper



VCC_IO jumper



VCC_LCD jumper



VCC_FLASH jumper



Battery

1x AA-1.5V

1x AA-1.5V

Power On/Off Switch-6pin

Power source jumper:

1-2: Battery

2-3: USB/DC (default)

R2
R_0.0603

D8
BAT254

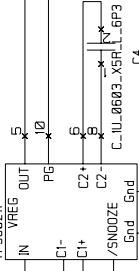
VBUS

Current is drawn from
input with highest voltage

P7
DC-JACK-2.5

D5
BAT254

U4
PS5021L



R45
R_390K_0603-J

C7

C5
C_2U2_0603_X5R-K-10

C1-
C_1U_0603_X5R-L-6P3

C1+
C_1U_0603_X5R-L-6P3

C2-
C_1U_0603_X5R-L-6P3

C2+
C_2U2_0603_X5R-K-10

R34
R_390K_0603-J

D7
LED-C150URCD

R35
R_K0_0603-J

R36
R_K0_0603-J

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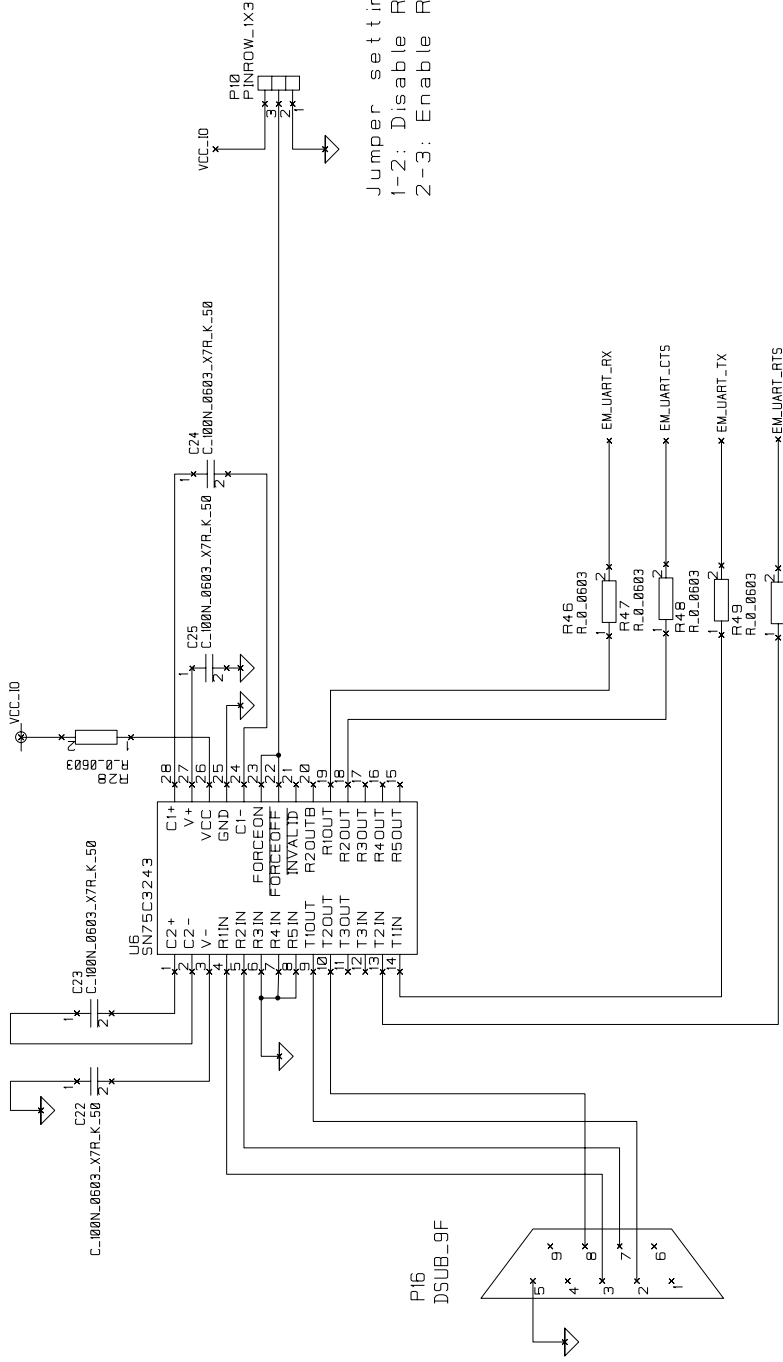
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R284
R_K



Jumper setting:
 1-2: Disable RS232-port
 2-3: Enable RS232-port (Default)

CONTRACT NO.		COMPANY NAME	
02587		T1 Norway, LPW	
APPROVALS DATE		DWG RS-232 Interface	
DRAWN TAL		SIZE FSCM NO.	
CHECKED		A3	
ISSUED		SCALE	
		REV. 1.2	
		SHEET 6 (6)	