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LPC3154 Powering and Unused parts

Page 3

LPC3154 Digital I/O

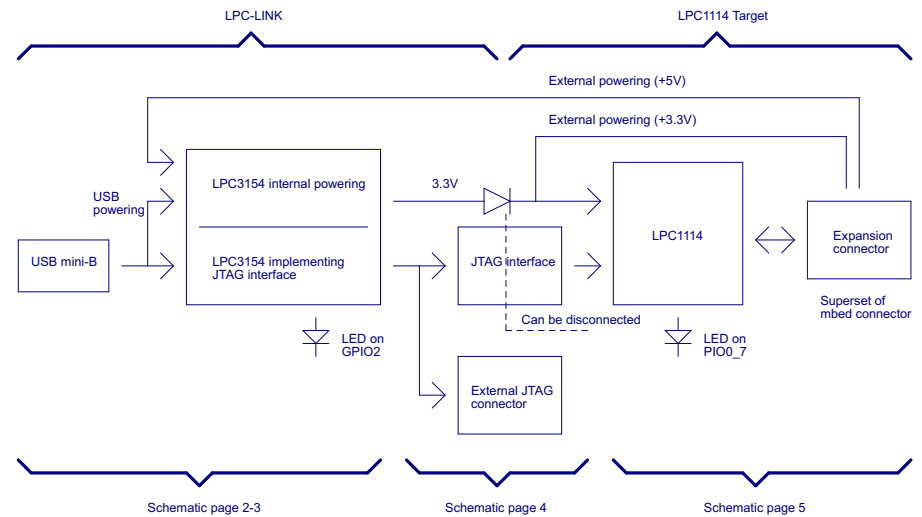
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JTAG Interface

Page 5

LPC1114 with Expansion connector

Design Overview



UL = UnLoaded = normally not mounted component.

Default jumper settings are indicated in the schematic.
However, always check jumper positions on actual boards
since there is no guarantee that all jumpers are in default place.

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TITLE: LPCXpresso LPC1104 Rev A

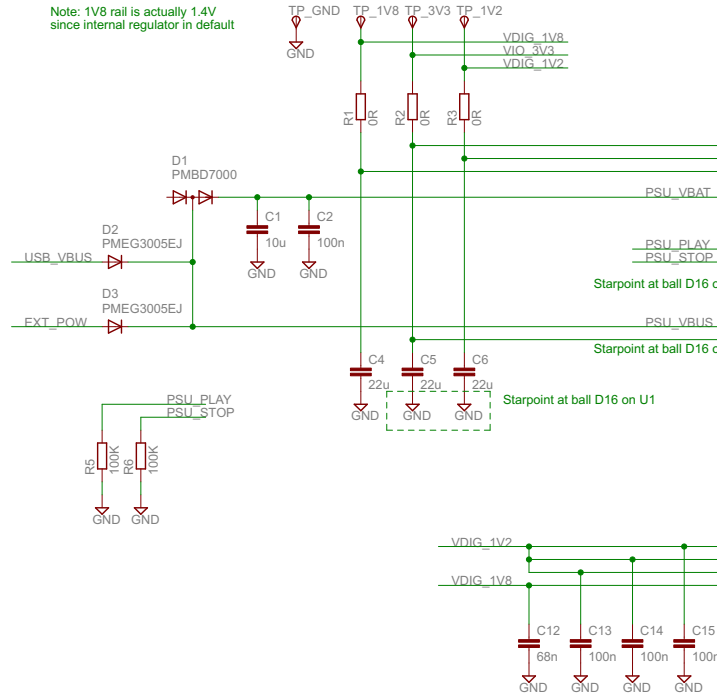
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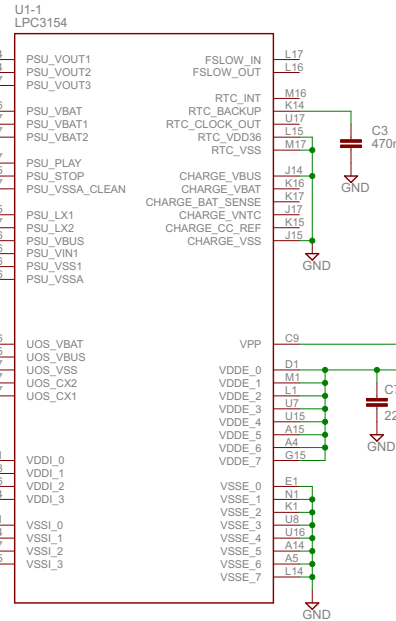
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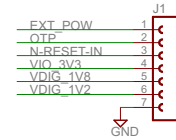
Note: 1V8 rail is actually 1.4V since internal regulator in default



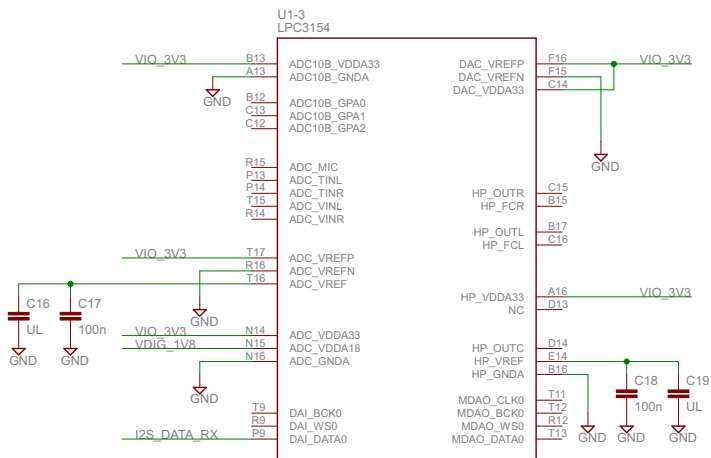
Power supply parts of LPC3154



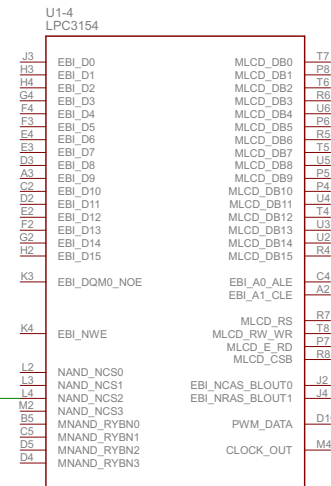
Production test connector



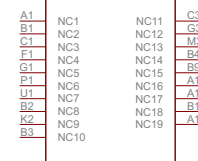
Analog parts of LPC3154



Not used parts of LPC3154



U1-5 LPC3154



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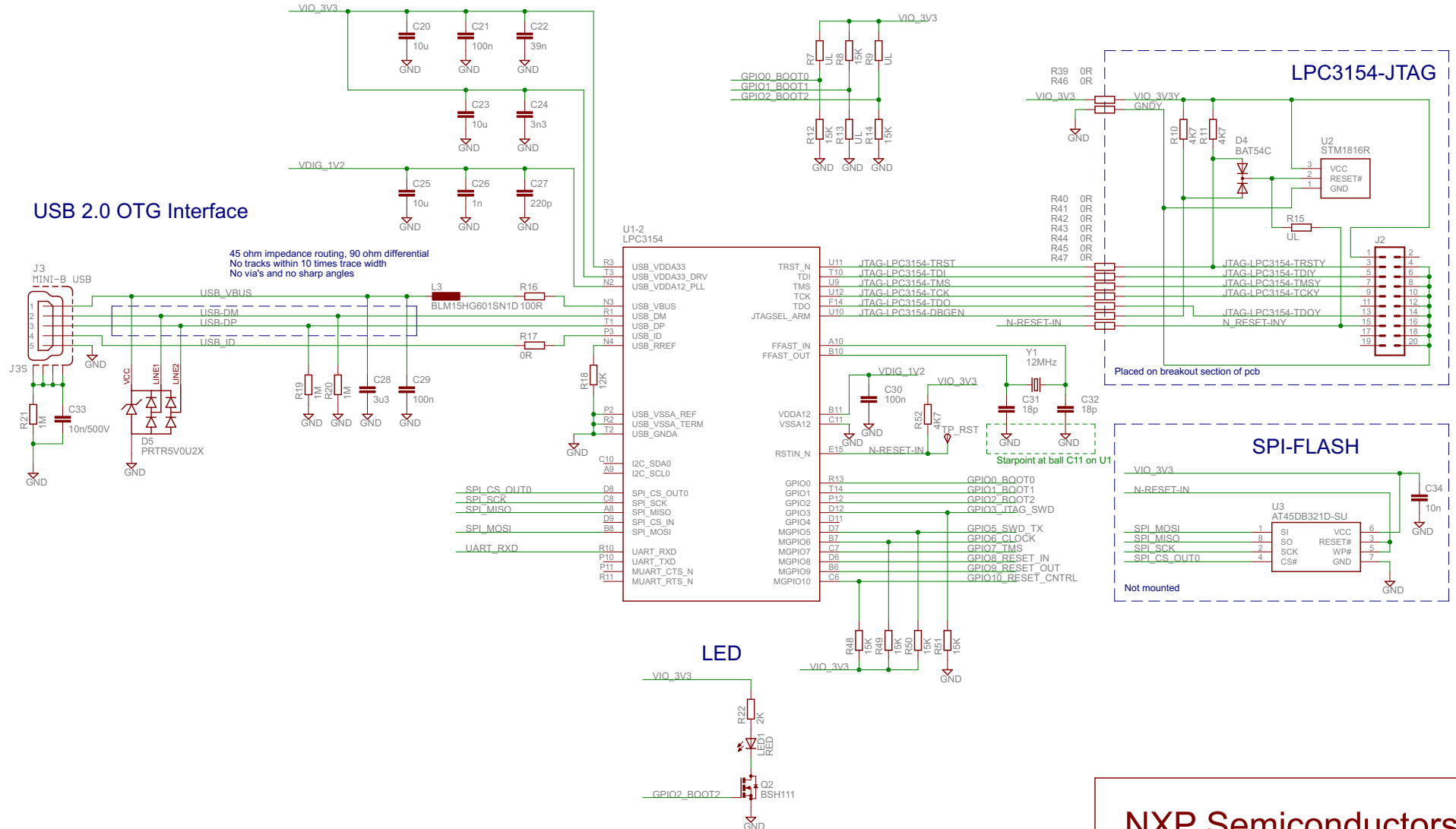
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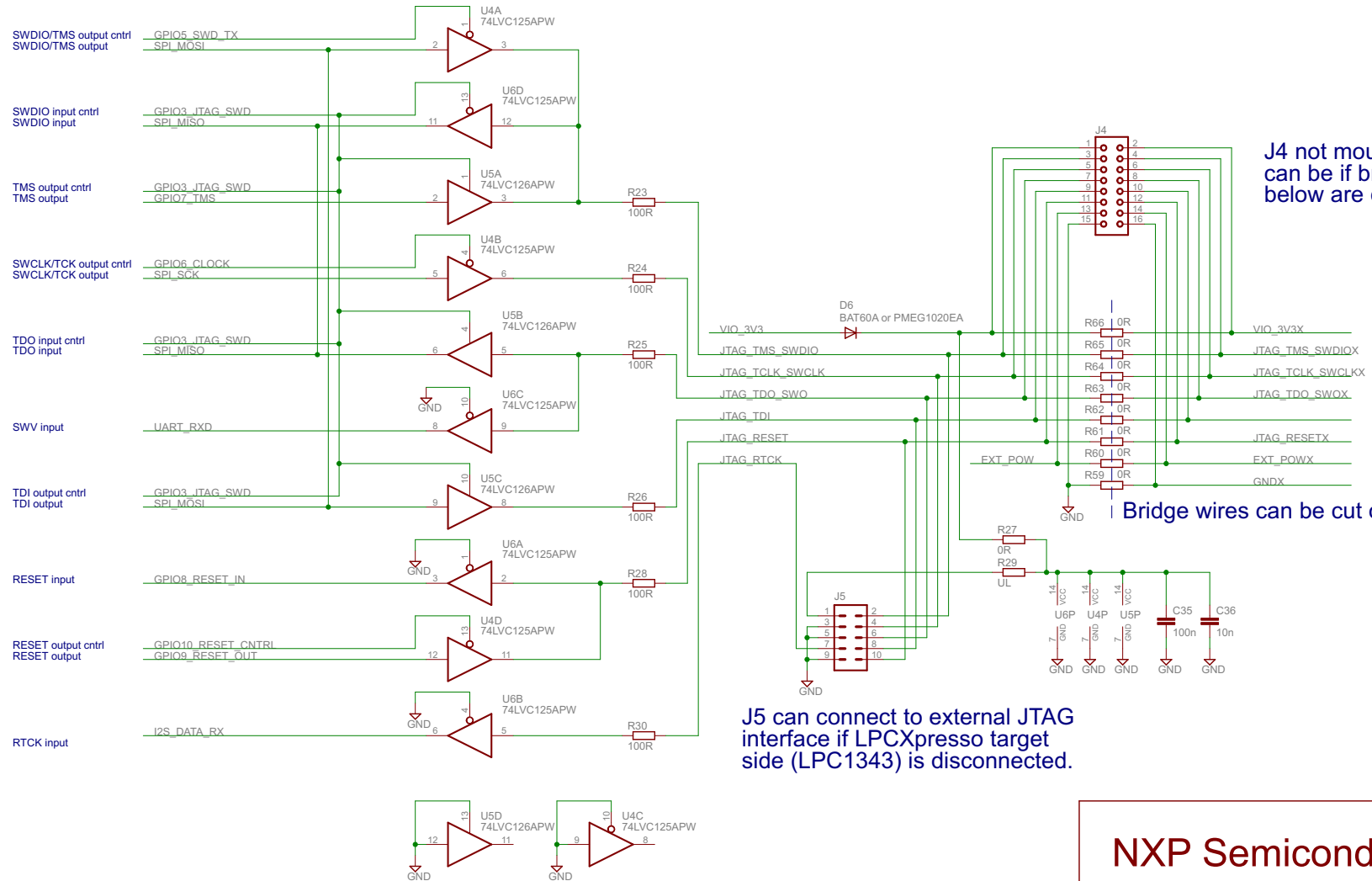
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Boot mode - USB via DFU class

USB 2.0 OTG Interface



JTAG Interface



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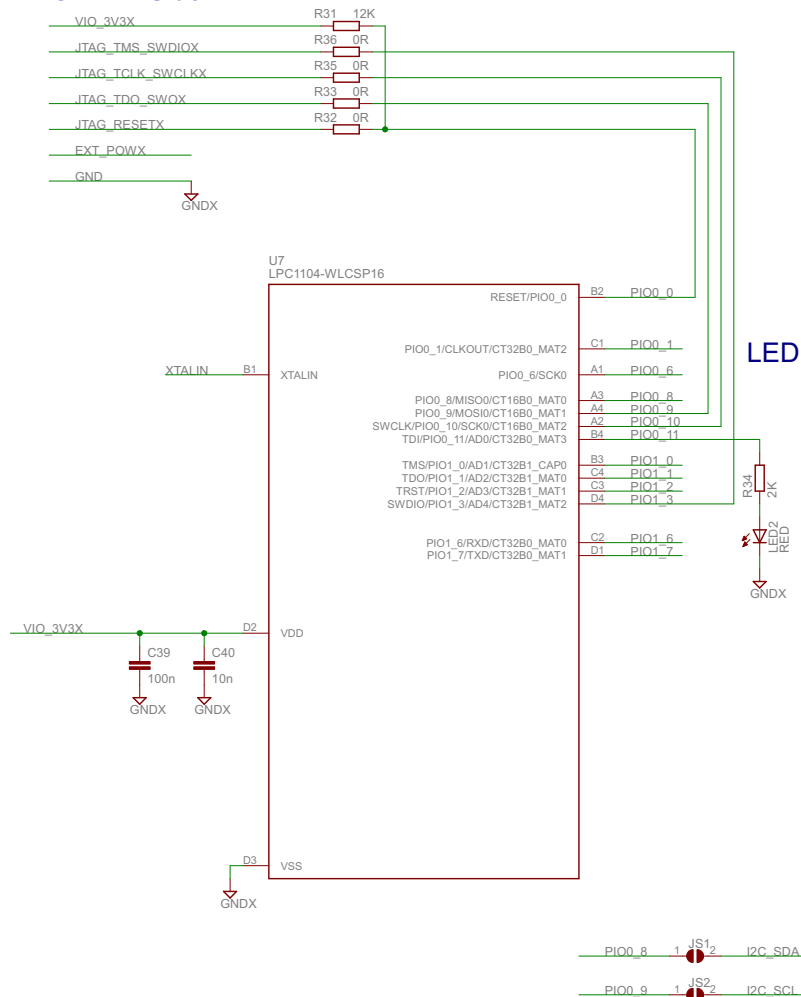
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From LPC-LINK Side



LPC1114 Target Side

mbed	LPCXpresso
GND	GND
VIN (4.5-14V)	VIN (4.5-5.5V)
VB (battery supply)	not used
nR (reset)	PIO0_0 RESET
SPI1-MOSI	PIO0_9 MOSI
SPI1-MISO	PIO0_8 MISO
SPI1-SCK	not used
GPIO	not used
UART1-TX / I2C1-SDA	PIO1_7 TXD
UART1-RX / I2C1-SCL	PIO1_6 RXD
SPI2-MOSI	not used
SPI2-MISO	not used
SPI2-SCL / UART2-TX	not used
UART2-RX	not used
AIN0	PIO0_11 AD0
AIN1	PIO1_0 AD1
AIN2	PIO1_1 AD2
AIN3 / AOUT	PIO1_2 AD3
AIN4	PIO1_3 AD4/SWDIO
AIN5	not used
	not used
	not used
	not used
	PIO0_10 SWCLK
	not used
	not used
	not used
	not used

Expansion Connector
(superset of mbed pinning)

Dual row holes (2x27), 100 mil spacing	
LPCXpresso	mbed
VOUT (+3.3V out) if self powered, else +3.3V input	VOUT (3.3V out)
not used	VU (5.0V USB out)
not used	IF+
not used	IF-
not used	RD- (Ethernet)
not used	RD+ (Ethernet)
not used	TD- (Ethernet)
not used	TD+ (Ethernet)
not used	D- (USB)
not used	D+ (USB)
not used	CAN-RD
not used	CAN-TD
not used	UART3-TX / I2C2-SDA
not used	UART3-RX / I2C2-SCL
not used	PWMOUT0
not used	PWMOUT1
not used	PWMOUT2
not used	PWMOUT3
not used	PWMOUT4
not used	PWMOUT5
GND	

JS1 and JS2
Production Test: solder bumps on
Normal operation: solder bumps removed

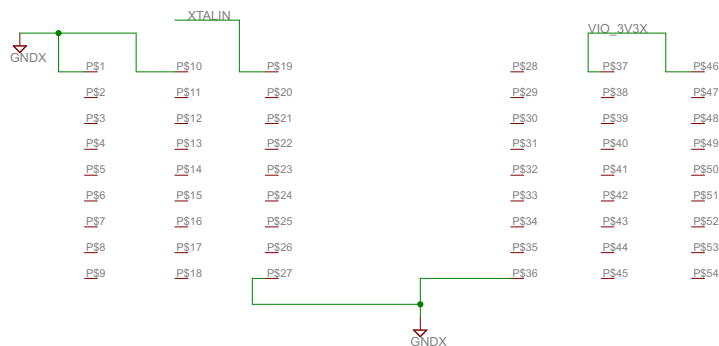
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Prototype block



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