USB Level Shifter Stick Low Power

Datasheet

- The USB Level Shifter converts an existing USB interface to a TTL-UART interface with variable operating voltage, as it is often used for trace and debug functions.
- The UART interface level automatically adapts to . the operating voltage of the target.
- The load of the USB Level Shifter on the Target is . less than 4.0 µA. This extremely low demand makes it ideal for battery operated circuits.
- Level conversion takes place for the UART signals TxD and RxD.
- The RxD and TxD signal cross over takes place in the USB Level Shifter.
- A 6-pin 1:1 connection cable for the target connection is included.



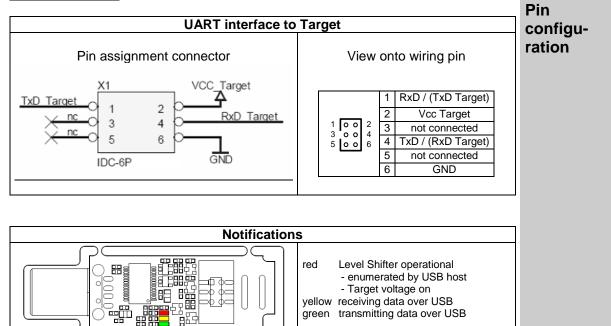
General technical data

Power supply Target operating voltage Power consumption	from USB 1.8V to 5.0V USB typ 20mA ; max. 100mA;	Technical Data
Connection to Target	Target 5.0V – max. 4.0µA* 3.3V – max. 2.5µA 1.8V – max. 1.5µA 6-pin male header Flat ribbon cable 280mm	
Target cable Connection to PC	6-pin female connector on both ends Pin1 is marked** USB 2.0 Typ A	
Housing	ABS, transparent	
Dimensions	L x W x H = 71 x 23 x 9 mm (71 x 23 x 22 mm***)	
Control and display elements	3 x LED: red, yellow, green	
Interfaces	<u>to Target:</u> UART, TTL-Pegel 1.8V to 5.0V 300 baud to 1 mega-baud 7 or 8 data bit; 1 or 2 stop bit parity odd / even / mark / space / no	
	to PC: USB 2.0 Full Speed compatible	
Operating temperature	+5 to +40°C	
Storage temperature	-25 to +70°C	
Type of protection	IP20	
* V _{Target} < V _{USB}		

** cable - colored edge marking; jack - marked with arrow

*** including connected Target cable

Pin configuration



<u>Scope of delivery</u> USB Level Shifter Stick Low Power with Target Cable	Order No. BN-031645	Scope of
<u>Accessories / Spare parts</u> USB Level Shifter Target Cable USB Cable Type A / A length 1.8m	BN-031644 BN-018198	delivery/ Accessories
<u>Versions</u> USB Level Shifter Stick Basic	BN-031648	
<u>Suitable for</u> deRFtoRCB Adapter deRFnode family deRFgateway family deRFdevelopment Kits	BN-028216 see homepage see homepage see homepage	
Order online: http://www.dresden-elektronik.de		

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