Chipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
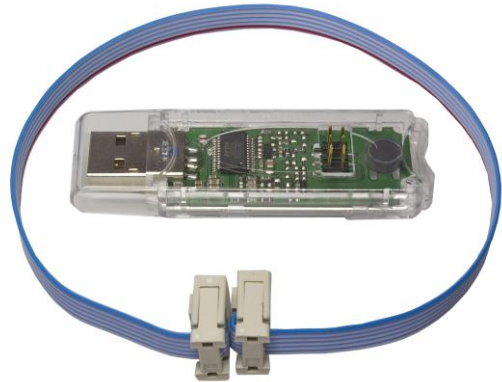Email & Skype: info@chipsmall.com Web: www.chipsmall.com
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USB Level Shifter Stick Low Power

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.

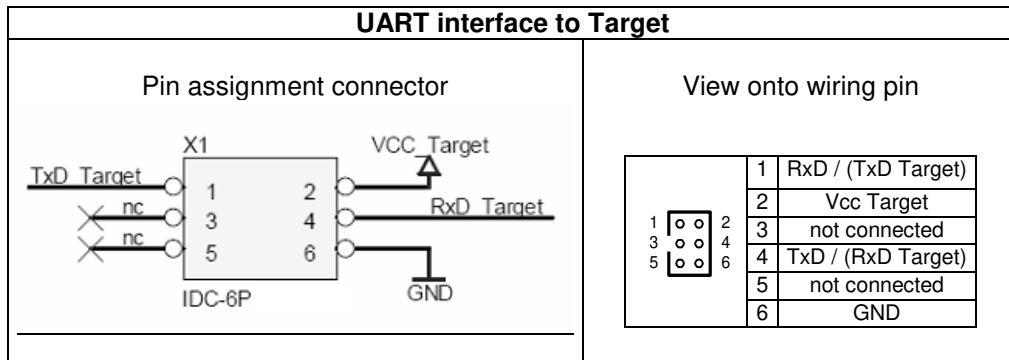- A 6-pin 1:1 connection cable for the target connection is included.

General technical data

Technical Data

Power supply	from USB
Target operating voltage	1.8V to 5.0V
Power consumption	USB typ 20mA ; max. 100mA;
	Target 5.0V – max. 4.0µA*
	3.3V – max. 2.5µA
	1.8V – max. 1.5µA
Connection to Target	6-pin male header
Target cable	Flat ribbon cable 280mm
	6-pin female connector on both ends
	Pin1 is marked**
Connection to PC	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	to Target:
	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

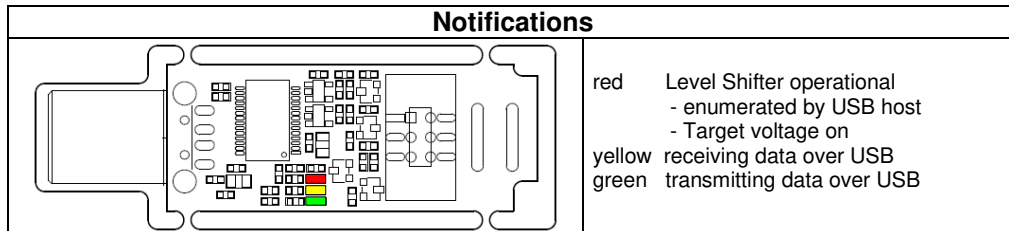* $V_{Target} < V_{USB}$
** cable – colored edge marking; jack – marked with arrow
*** including connected Target cable

Pin configuration

UART interface to Target

Pin assignment connector	View onto wiring pin

1	RxD / (TxD Target)
2	Vcc Target
3	not connected
4	TxD / (RxD Target)
5	not connected
6	GND

Notifications

red   Level Shifter operational
    - enumerated by USB host
    - Target voltage on
yellow   receiving data over USB
green   transmitting data over USB

Scope of delivery

	Order No.
USB Level Shifter Stick Low Power with Target Cable	BN-031645

Accessories / Spare parts

USB Level Shifter Target Cable	BN-031644
USB Cable Type A / A length 1.8m	BN-018198

Versions

USB Level Shifter Stick Basic	BN-031648

Suitable for

deRFtoRCB Adapter	BN-028216
deRFnode family	see homepage
deRFgateway family	see homepage
deRFdevelopment Kits	see homepage

Order online: http://www.dresden-elektronik.de