

Link do produktu: <https://www.gotronik.pl/itool-multi-konwerter-8w1-z-usb-na-uart-usb-blaster-rs485-rs232-zasilacz-5v-zasilacz-3-3v-arm-jtag-arm-swd-p-2698.html>



## iTool - multi konwerter 8w1 z USB na UART, USB Blaster, RS485, RS232, zasilacz 5V, zasilacz 3,3V, ARM JTAG, ARM SWD

Cena brutto	<b>341,69 zł</b>
Cena netto	<b>277,80 zł</b>
Dostępność	<b>Niedostępny</b>
Numer katalogowy	<b>iTool</b>
Producent	<b>Gingko</b>

### Opis produktu

## iTool - multi konwerter 8w1

iTool - multi konwerter 8w1 z USB na UART, USB Blaster, RS485, RS232, zasilacz 5V, zasilacz 3,3V, ARM JTAG, ARM SWD

#### iTool multi-konwerter 8w1:

- USB - UART
- USB - USB Blaster
- USB - RS485
- USB - RS232
- USB - zasilacz +5V
- USB - zasilacz +3V
- USB - ARM JTAG
- USB - ARM SWD

#### Name

Parameter

#### Support operating system

Windows XP\2003

Windows Vista / 7(32 / 64bit )

#### Support debugging mode

JTAG / SWD

#### Support device

ARM7 / 9 / 11 / Cortex kernel

#### Speed

5kHz~4MHz

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Output interface	20P JTAG XH-3P SWD interface
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Interface protection	ESD and TVS protection
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5V / 3.3V output parameter list

Name	Parameter
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Output current	5V output depends on the power supply system, The output of the 3.3V 300mA
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Protection	self recovery fuse overcurrent overvoltage / TVS
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Output interface	3 pin 3.81mm EDG pitch connector
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The built-in iTool Usb blaster performance

Name	Parameter
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scheme	The high-speed FT245+CPLD scheme, REVC version
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Voltage / mode	1.5V~5.5V / JTAG / AS / PS
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Support device	Altera MAX / MAXII / MAXV as a full range of CPLD A full range of Stratix / Cyclone as a full range of FPGA EPCS1 / EPCS4 / EPCS16 full range of configuration chip
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*The built-in iTool USB RS-232 / 485 / TTL performance*

Name	Parameter
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Scheme	The high performance CP2102 scheme, high-speed, stable
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Support the baud rate	300bps ~ 1Mbps
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Interface type	RS-232 standard, standard RS-485, 3.3V TTL
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Protection	RS-232 ( TVS ) / RS-485 ( TVS / ESD )
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RS-485 direction control	automatic send and receive, hardware delay control
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### Speed advantage

First of all, the iTool high speed USB chip HUB, this work provides several tools for parallel USB data bandwidth guarantee.

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Secondly, USB Blaster using a high-speed FT245 + CPLD scheme, speed is not on the market 68013 plan cheap debugger can be compared, usually several times faster, reducing the debugging process anxiously waiting, drop sinks into the river, our most precious time, saving time value is much higher than the price of iTool.

Finally, USB RS-232 / RS-485 / TTL we adopted a stable and reliable CP2102 solutions. As we all know, USB to serial stability is always a difficult problem to solve, especially the market of cheap USB to serial programming interface converter almost have the market to do bad, the electronic engineer mood messed up, but the CP2102 import interface chip has been word-of-mouth good, I used for many years, almost there is no compatibility, stability problem, please do not use homebred chip than price. According to our test, the USB iTool RS-485 in communication cable up to five meters in the case, even if the baud rate of up to 921600 BPS ( 115200 BPS eight times), can also be stable communication.

### Safety advantage

I often meet users complain, due to the use of inexpensive debugger, Download ( some even use the zener diode instead of LDO power chip ) and the computer circuit board burned, burned, or even the expensive equipment to burn.

We don't have the lucky psychology, this kind of thing all one's life to meet again, will make you lose a few times very consummate hundredfold economic costs.

iTool this tool in the aspects of safety and reliability is doing a good job, contact with the outside world important link, we have adopted the expensive protective chip, TVS TVs, special protection chip, self recovery fuse and too numerous to mention. Here I give everybody to make a substance, the board inside the light SRV05-4 in three, RS-485 interface, even using expensive PSM712 chip, we can go online to check the price; the few chip price than the domestic interface chip is more expensive. Please see below for internal iTool gold, red PCB board chart, marking a green dot to protect chip. The detail decides success or failure, only dare to bare the sun come out!

Form, iTool customized using aluminum alloy shell, and the use of spray painting process. With elegant, durable, strong electromagnetic interference capacity and many other advantages, cost is the ordinary plastic shell simulator dozens of times, performance is also compared to ordinary simulator.

### Attitude of superiority

We have one hundred percent perfect product, but we will have one hundred percent so that you are satisfied with the attitude, iTool each link will be detailed test. We just said the following two aspects.

The first : the USB Blaster function test, each iTool we will be 9999 JTAG link scan, let you download the reliability does not exist " in case ".

### Test report

USB RS-485 ( and FT232 chip communication ) transmission file test, transmission time units of seconds ( s )

Agreement	1K	Xmodem	Ymodem	Ymodem-G	Zmodem	Zmodem
Baud rate	Xmodem					With the collapse of reply
4800	206 s	253 s	208 s	202 s	208 s	208 s
9600	106 s	151 s	106 s	101 s	104 s	104 s
19200	58 s	69 s	54 s	50 s	52 s	52 s
38400	28 s	49 s	29 s	25 s	25 s	25 s

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57600	20 s	37 s	21 s	16 s	17 s	17 s
115200	12 s	30 s	12 s	8 s	8 s	8 s
230400	8 s	24 s	7 s	4 s	4 s	4 s
460800	6 s	21 s	6 s	2 s	2 s	2 s

Test environment: Windows XP system, transmission line length 4.06 meters, transmission file size 95k byte.

USB RS-232 ( and CH341 chip communication ) transmission file test, transmission time units of seconds ( s )

Agreement	1K Xmodem	Xmodem	Ymodem	Ymodem-G	Zmodem	Zmodem
Baud rate						With the collapse of reply
4800	205 s	235 s	208 s	201 s	208 s	208 s
9600	106 s	128 s	104 s	100 s	104 s	104 s
19200	54 s	70 s	53 s	50 s	52 s	52 s
38400	27 s	47 s	28 s	25 s	25 s	25 s
57600	20 s	47 s	20 s	16 s	17 s	16 s
115200	11 s	35 s	11 s	8 s	8 s	8 s
230400	7 s	35 s	7 s	4 s	4 s	4 s
460800	4 s	24 s	4 s	2 s	2 s	2 s

Test environment: Windows XP system, transmission file size 95K byte.

USB UART ( and CP2102 chip communication ) transmission file test, transmission time units of seconds ( s )

Agreement	1K Xmodem	Xmodem	Ymodem	Ymodem-G	Zmodem	Zmodem
Baud rate						With the collapse of reply
4800	206 s	245 s	208 s	201 s	208 s	208 s
9600	108 s	137 s	131 s	101 s	104 s	104 s

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19200	52 s	83 s	55 s	50 s	52 s	52 s
38400	28 s	55 s	28 s	25 s	26 s	26 s
57600	22 s	50 s	20 s	16 s	17 s	17 s
115200	12 s	35 s	12 s	8 s	8 s	8 s
230400	8 s	35 s	7 s	4 s	4 s	4 s
460800	5 s	35 s	7 s	2 s	2 s	2 s

Test environment: Windows XP system, transmission file size 95k byte.

ITool download function test

Function port	The target chip	Debugging	download
ARM JTAG	LPC2210	normal	normal
	STM32F107ZE	normal	normal
ARM SWD	STM32F103VC	normal	normal
	STM32F107ZE	normal	normal
	LPC1113	normal	normal
USB UART	STC11L08XE	---	normal
	EPM240T100C5 (CPLD)	---	normal
Usb Blaster	5M80ZE64 (CPLD)	---	normal
	EP2C8Q208C8N (FPGA)	normal	normal
	EP4CE6E22C8N (FPGA)	normal	normal
	EPCS4( configuration chip )	--	Normal ( AS mode )
	EPCS16( configuration chip )	--	Normal ( AS mode )

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**zdjęcia:**

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