

40%-al gyorsabb az
előző generációnál



Az RTX új Nexus ICE (In-Circuit Emulator) ideális eszköz a CRC16C és ARM Cortex M3 processzorok gyors és hatékony hibakereséséhez

The Nexus ICE is designed with ESD protected interfaces and galvanic isolation between the target hardware and the USB interface and it is connected via the USB port and powered from your Windows PC. The Nexus debugger software, supplied on a USB memory stick, automatically downloads firmware upgrades to the Nexus ICE.

Connection to your design is achieved via a 2x10 pin connector using UART and/or JTAG. The kit also includes a set of standard PCB adapters for the 2x10 pin connector to provide flexibility on how you want to connect to your target hardware. Optional adaptors are available.

Features & Benefits

R&D Use

- Fast Flash programming
- Advanced debugging with:
 - Real-time monitoring of memory/variables
 - IAR UBROF and GCC ELF/DWARF debug file support
 - Execution control
 - Chip & OS awareness – interpreted view of registers, clock tree, etc.
 - Scripting support

QA Use

- Read-out of target error logs from persistent memory
- Read-out of call stack, memory, etc. When testing with debugger

Production Use

- LL use for fast Flash programming in production line
- Communication access to target
 - Configuration of non-volatile storage
 - Production test interface commands

TECHNICAL SPECIFICATIONS

FEATURE	SPECIFICATION																												
UART interface	<ul style="list-style-type: none"> Standard & special baud rates UART emulation over JTAG (RAM Bus) for systems where target UART is occupied 																												
JTAG interface	<ul style="list-style-type: none"> 5-wire/1-wire JTAG for Dialog CR16C+/SDI+ based targets - such as SC144xx series 2-wire JTAG (SWD) for ARM Cortex-M3 targets - such as Silicon Labs EFM32xx or EFR4xx series <table border="1"> <thead> <tr> <th>Signal</th> <th>2X10 pin connector</th> <th>2x5 pin connector</th> <th>DB9</th> </tr> </thead> <tbody> <tr> <td>VCC_IO</td> <td>1</td> <td>1</td> <td>9</td> </tr> <tr> <td>JTAG/SWDIO</td> <td>10</td> <td>3</td> <td>1</td> </tr> <tr> <td>Target TX</td> <td>14</td> <td>5</td> <td>3</td> </tr> <tr> <td>Target RX</td> <td>12</td> <td>7</td> <td>2</td> </tr> <tr> <td>Target GPI/SWDCLK</td> <td>16</td> <td>10</td> <td>7</td> </tr> <tr> <td>GND</td> <td>2, 4, 6, 8, 20</td> <td>2, 4, 6, 8, 9</td> <td>5, 6</td> </tr> </tbody> </table>	Signal	2X10 pin connector	2x5 pin connector	DB9	VCC_IO	1	1	9	JTAG/SWDIO	10	3	1	Target TX	14	5	3	Target RX	12	7	2	Target GPI/SWDCLK	16	10	7	GND	2, 4, 6, 8, 20	2, 4, 6, 8, 9	5, 6
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Power ratings	<ul style="list-style-type: none"> Automatic I/O voltage adaption 1.8-3.3 V 																												
Synchronous (OWI)	<ul style="list-style-type: none"> 0.3 MHz 1.296 MHz 5.184 MHz 9.216 MHz 																												
1-wire JTAG frequencies	<ul style="list-style-type: none"> 10.368 MHz 12.0 MHz 12.288 MHz 20.736 MHz 																												
Physical dimensions	<ul style="list-style-type: none"> Nexus ICE hardware unit: 105 x 70 x 19 mm (L x W x H) Shipping carton: 195 x 115 x 65 mm (L x W x H) 																												
Supported OS	<ul style="list-style-type: none"> Signed drivers for Windows 7 and later, x86 and xD 																												

ORDERING

PRODUCT NO	DESCRIPTION
95101391	RTX 2041 Nexus ICE kit - complete

BOX

PRODUCT NO	DESCRIPTION
95200905	RTX 2041 Nexus ICE unit - hardware
95101087	RTX 2041 Nexus ICE memory stick - software
60050822	USB cable A-male - B-mini 1m
60050944	Flat target connector cable 2x5 pin 150mm
70010153	PCB adapter 2x10 pin - DB9
70010154	PCB adapter 2x10 pin - 2x5 pin

OPTIONAL

PRODUCT NO	DESCRIPTION
95100502	Cable DB9 - 5 pin Molex
95100504	Cable DB9 - 6 pin Molex