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Link do produktu: https://www.gotronik.pl/emulator-mikrokontrolerow-avr-atmel-zgodny-z-jtagice-mk-ii-p-1244.html

Emulator mikrokontrolerów AVR Atmel zgodny z JTAGICE mk II

Cena brutto	**999,00 zł**
Cena netto	**812,20 zł**
Czas wysyłki	**24 godziny**
Numer katalogowy	**JTAGICE-MKII**

Opis produktu

Tis item is 100% compatible with Atmel's AT JTAGICE mkII, It supports AVR32 series of MCUs and can upgrade with avrstudio's upgrade tool.

a powerful development tool for On-chip Debugging of all AVR 8-bit RISC MCUs and AVR32 32-bit DSP/MCUs with IEEE 1149.1 compliant JTAG interface.

Combined with AVR Studio the JTAGICE mkII can do On-Chip Debugging on all AVR 8-bit RISC microcontrollers with JTAG Interface or debugWIRE Interface. Click here for a list of supported devices.

JTAG
The JTAG interface is a 4 wire Test Access Port (TAP) controller that is compliant with the IEEE 1149.1 standard. The IEEE standard was developed to enable a standard way to efficiently test circuit board connectivity (Boundary Scan). Atmel AVR devices have extended this functionality to include full Programming and On-Chip Debugging support.

The JTAGICE mkII uses the standard JTAG interface to enable the user to do real time emulation of the microcontroller while it is running in the target system.

The AVR On-Chip Debug (AVROCD) protocol gives the user complete control of the internal resources of the AVR microcontroller. Thus JTAGICE mkII gives accurate emulation at a fraction of the cost of traditional emulators.

debugWIRE
The debugWIRE interface adds a new way of doing On Chip Debug. The debugWIRE On-chip debug system uses a one-wire, bi-directional interface to control the program flow, execute AVR instructions in the CPU and to program the different non-volatile memories.

When the debugWIRE Enable (DWEN) Fuse is programmed and Lock bits are un-programmed, the debugWIRE system within the target device is activated. The RESET port pin is configured as a wire-AND (open-drain) bi-directional I/O pin with pull-up enabled and becomes the communication gateway between target and emulator.

Note that debugWIRE is a debugging interface only and not a programming interface.

ISP
The JTAGICE mkII also supports full programming through the ISP interface. All JTAG and debugWIRE parts are supported. See Programming with JTAGICE mkII for more information.

It works on either USB port or RS232 seriel port.

JTAGICE mkII features

- AVR Studio Compatible (AVR Studio 4.09 or later)
- Supports all AVR Devices with JTAG Interface
- Supports all AVR Devices with debugWIRE Interface
- Supports ISP programming of all JTAG and debugWIRE parts
- Exact Electrical Characteristics
- Emulates Digital and Analog On-Chip Functions
- Software Breakpoints
- Program Memory Breakpoints
- Supports Assembler and HLL Source Level Debugging
- Programming Interface to flash, eeprom, fuses and lockbits (JTAG only)
- USB 1.1 and RS232 Interface to PC for Programming and Control
- Regulated Power Supply for 9-12V DC Power
- Can be powered from the USB alone
- Same hardware for both interfaces (JTAG and debugWIRE)
- Auto firmware upgrade if there is new firmware available in future new AVR Studio software.

8-bit AVR:
The JTAGICE mkII also support devices with debugWIRE Interface. debugWIRE enables on-chip debug of AVR microcontrollers in small pin count packages, using only a single wire for the debug interface.

The AVR Studio online-help contains the most current information and a complete list of supported devices.

Read more about AVR 8-bit RISC microcontrollers.

32-bit AVR32:
The JTAGICE mkII is supported by the AVR32 Studio.

Read more about AVR32 32-bit MCU/DSP.

AVR XMEGA
Read AVR XMEGA from Atmel

More information,you can visit this url from atmel's JTAGICE mkII.

http://www.atmel.com/dyn/products/tools_card.asp?family_id=607&family_name=AVR%AE+8%2DBit+RISC+&tool_id=3353

Support Device:

AVR 8-BIT MCU

JATG:
mega Series:
ATmega16 ATmega162 ATmega32 ATmega64 ATmega128 ATmega169 ATmega169P ATmega329 ATmega329P ATmega3290 ATmega3290P ATmega649 ATmega6490 ATmega164P ATmega324P ATmega644P ATmega165 ATmega165P ATmega325 ATmega325P ATmega3250 ATmega3250P ATmega645 ATmega6450 ATmega640 ATmega1280 ATmega1281 ATmega2560 ATmega2561

Xmega Series:
ATxmega128A1 ATxmega64A1
Other Series:
AT90CAN32 AT90CAN64 AT90CAN128 AT90USB162 AT90USB646 AT90USB647 AT90USB1286 AT90USB1287

DebugWIRE:
mega Series:
ATmega48 ATmega48P ATmega88 ATmega88P ATmega168 ATmega168P
tiny Series:
ATtiny13 ATtiny2313 ATtiny24 ATtiny44 ATtiny84 ATtiny25 ATtiny45 ATtiny85 ATtiny261 ATtiny461 ATtiny861
Other Series:
AT90PWM2 AT90PWM2B AT90PWM3 AT90PWM3B AT90USB162

AVR 32-BIT MCU

JATG:
AT32AP7000 AT32AP7001 AT32AP7002 AT32UC3A0128 AT32UC3A0256 AT32UC3A0512 AT32UC3A1128 AT32UC3A1256 AT32UC3A1512 AT32UC3B0128 AT32UC3B0256 AT32UC3B064 AT32UC3B1128 AT32UC3B1256 AT32UC3B164

Support "L" or "V" Series Device, For example: ATmega16L , ATmega48V
Support Target Board VDD 2.1-5.5V
The onboard firmware is upgradeable via AVRStudio IDE to support newly introduced devices.