

TEMTAG™ USB

FLEXIBLE MULTI-TAP JTAG CONTROLLER FOR USB INTERFACE

OVERVIEW

TemTag™ USB is a high speed JTAG controller for interfacing your UUT and your test environment directly on a standard USB interface of your PC. The TemTag™ USB comes in two version providing either 1 or 4 ports allowing to :

- Connect to any JTAG chain, for example on FPGA devices or PCB boards
- Program any PLD or FPGA using DiaTem
- Test and verify your boards with DiaTem Studio

TemTag™ USB is compatible with a TCK clock frequency ranging up to 25 MHz and deliver a high data throughput depending on the performance of your PC and system environment.

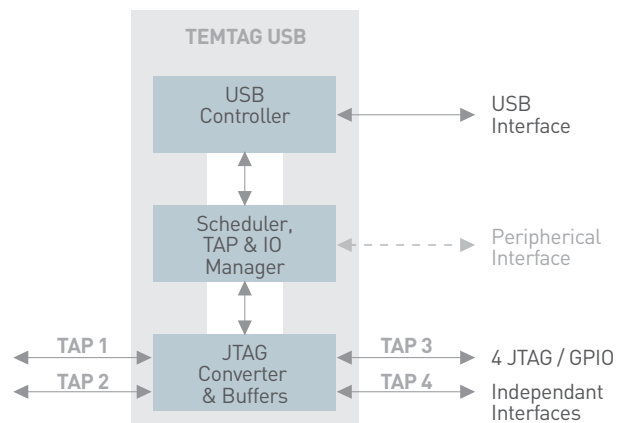
The TemTag™ USB allows you to use 4 TAPs and to manage synchronized transfers at the maximum frequency. Digital IO resources are available to control FLASH programming or for use into complex test sequences between the different TAPs. The architecture of the TemTag™ USB is ready for hosting additional peripherals through a dedicated interface like extra TAPs, specific electrical interfaces, displays, etc...



→ BENEFITS

- Manage up to 4 TAPs with the same controller
- Easily get digital IO or TAP interfaces on each 4 port
- Speed up your FLASH programming with IO controls
- Use digital IO to extend your test sequences
- Serialize up to 4 TAP interfaces from your UUTs

ARCHITECTURE



→ SPECIFICATIONS

CONFIGURATION

- **USB 2.0 compatible**
- **Power Supply Vcc:** 5V for the TemTag™ USB multi-TAPs, supplied by USB for TemTag™ USB mono-TAP
- **IO Voltage:** Programmable from 1.2 to 3.3 V (5V tolerant). Each bank/interface can be programmed differently
- **IO current:** 2 mA (source/sink)
- **IO Configuration:** 5 digital IO or 1 TAP per bank or connector interface
- **TCK:** up to 25 MHz by step of +/- 2%
- **TCK and TMS:** 50 ohms serial resistor
- **Line Delay Automatic Compensation**
- **Voltage output programming:** independent for each bank or connector interface
- **4 synchronous TAPs**
- **Operating (Temp/Humidity):** 0°C to 50°C/5 to 90 %
- **Storage (Temp/Humidity):** -5°C to 70°C/5 to 95 %

CONNECTIVITY

- **PC side:** 1 USB cable connector with type A slot
- **UUT side:** 4 x HE10 male for the multi-TAP version, 1 x HE10 male for the mono-TAP version

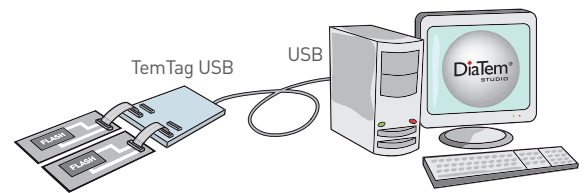
SOFTWARE ENVIRONMENT

- **Operating Systems:** Windows 2000 / Windows XP

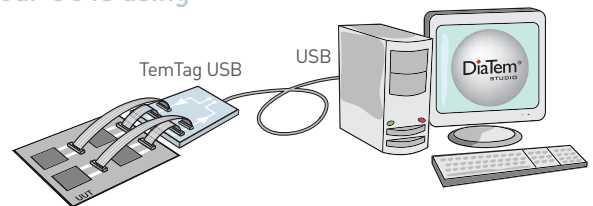
ORDERING INFORMATION

- **TEM1-USB:** TemTag USB MonoTAP (JTAG Controller 1 TAP)
- **TEM4-USB:** TemTag USB MultiTAP (JTAG Controller 4 TAPs)

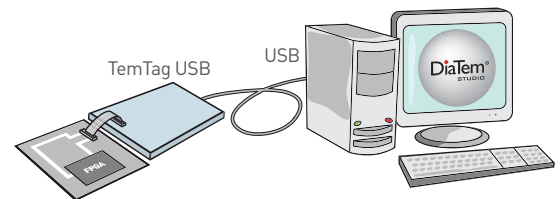
Multiple FLASH programming capability



Manage as a single JTAG chain up to 4 TAPs of your UUTs using DiaTem



Program any PLD or FPGA using DiaTem



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For more info on Temento Systems solutions, please visit our web site:
www.temento.com

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