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CodeWarrior Gigabit TAP

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The Gigabit TAP enables Freescale target system debugging via a standard debug port (such as JTAG) while connected to a developer's workstation via Ethernet. Using the Gigabit TAP, developers can debug systems remotely or more effectively share a single system with multiple developers. Gigabit TAP is designed to work in conjunction with Freescale CodeWarrior development tools and Freescale processors. A Freescale Gigabit TAP is a critical debug tool in all phases of the project and is necessary to running a fully debugged operating a system.

Features

- Supports all available core speeds and voltages for supported Freescale processors
- Supports debugging via JTAG interface
- Automatically supports system voltage levels from 1.8 to 1.3
- In conjunction with the CodeWarrior development system, the Gigabit TAP:
 - Programs system flash memory during debug and development phases of the project, including most popular flash memories, but specifically all flash memories used with Freescale development systems
 - Controls the target development system even when the system may have crashed during development
 - Offers complete system visibility and control, including reading/writing of CPU registers, memory mapped registers, block reading/writing of memories, single step debugging, setting software and hardware breakpoints, and monitoring target system status
 - Gives control over the target system execution, including control of one or all cores, and resets

When available, allows the addition of a high-performance daughter card for non-obtrusive real-time tracing (when available, this will be detailed in a separate data sheet)

As a convenience feature, the Gigabit TAP probe can connect to a target systems serial port and allow telnet access to that serial port. Allows very convenient access to a remotely located system via the Gigabit TAP's Ethernet connection. This capability allows remote control of the U-boot program.

What's New

- Integrated with CodeWarrior development systems
- Up to 2.5 times faster downloads than the USB TAP
- Low voltage target support
- Expandable design using add-on daughter card
- Connects using 10/100/1000 BaseT Ethernet

System Requirements

- 10/100/1000 Ethernet on host computer
- External power supply which requires standard wall socket power input

Freescale ships multi-country power supplies

Related Software & Tools

[CW_DSPA: CodeWarrior Development Studio v10.0 for Power Architecture® Technology \(Eclipse\)](#)
[USBTAP: CodeWarrior USB TAP](#)

This Software Includes

Config / Dev Tools

Customer Application

Stacks

Applications

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Processor

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Supported Devices

[P1020: QorIQ P1020 and P1011 Communications Processors](#)
[P2020: QorIQ P2020 and P2010 Communications Processors](#)
[P4040: QorIQ Embedded Multicore Processors](#)

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Kit Contents

- Gigabit TAP Probe
- Gigabit TAP JTAG Probe TIP
- Gigabit TAP JTAG Probe TIP extension tip which allows for tight spaces
- Gigabit TAP Probe power supply

Support Policy

Includes 12-month technical support

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