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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# Gigabit TAP for the Suite of CodeWarrior Development Tools

## Enhanced debugging

### Overview

The Gigabit TAP enables Freescale target system debugging via a standard debug port, such as JTAG, while connecting to a developer's workstation via Ethernet, and is designed to work in conjunction with Freescale processors and our suite of CodeWarrior development tools\*. Using the Gigabit TAP, developers can debug systems remotely or more effectively share a single system with multiple developers. The Freescale Gigabit TAP is a useful debug tool in all phases of the project, but it is absolutely necessary prior to having a fully debugged operating system running.

The Freescale Gigabit TAP is integrated with the CodeWarrior Development System and offers up to 2.5x faster downloads than the USB TAP

### System Requirements

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

### Features

- Supports all available core speeds and voltages for supported Freescale processors\*
- Supports debugging via JTAG interface
- Automatically supports system voltage levels from 1.2V to 3.3V
- 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
  - Monitoring target system status
- Gives control over the target system execution including control of one or all cores, and resets
- Expansion capability allows for the eventual addition of a high-performance daughter card to enable non-obtrusive real-time tracing (when available, this will be detailed in a separate data sheet)
- Gigabit TAP probe can connect to a target system's serial port and allow telnet access to that port. This allows convenient access to a remotely located system via the Gigabit TAP Ethernet connection. This allows for remote control of the u-boot program.

\* Visit [freescale.com/GigabitTAP](http://freescale.com/GigabitTAP) for the most current information regarding what Freescale parts are compatible with the Gigabit TAP.

### Benefits

- First debug probe tested and used with all new QorIQ chips from Freescale
- Ethernet connection allows sharing and remote access of development systems
- Download speed is up to 2.5x faster than the USB TAP—Gigabit TAP has been measured at over 3 Mbps download speeds. These performance metrics will vary based upon type of code and amount of symbolic debug data downloaded.

### Kit Contents

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

Part Numbers		
<b>Gigabit TAP with JTAG Probe TIP</b>	CWH-GTAP-JTAG-HE	■
<b>Gigabit TAP JTAG Probe TIP only</b>	CWH-GTAP-JTAG-YE	■

### Learn More:

To learn more about the Gigabit TAP, the CodeWarrior Development Studio and other Freescale products, please visit [freescale.com/GigabitTAP](http://freescale.com/GigabitTAP).