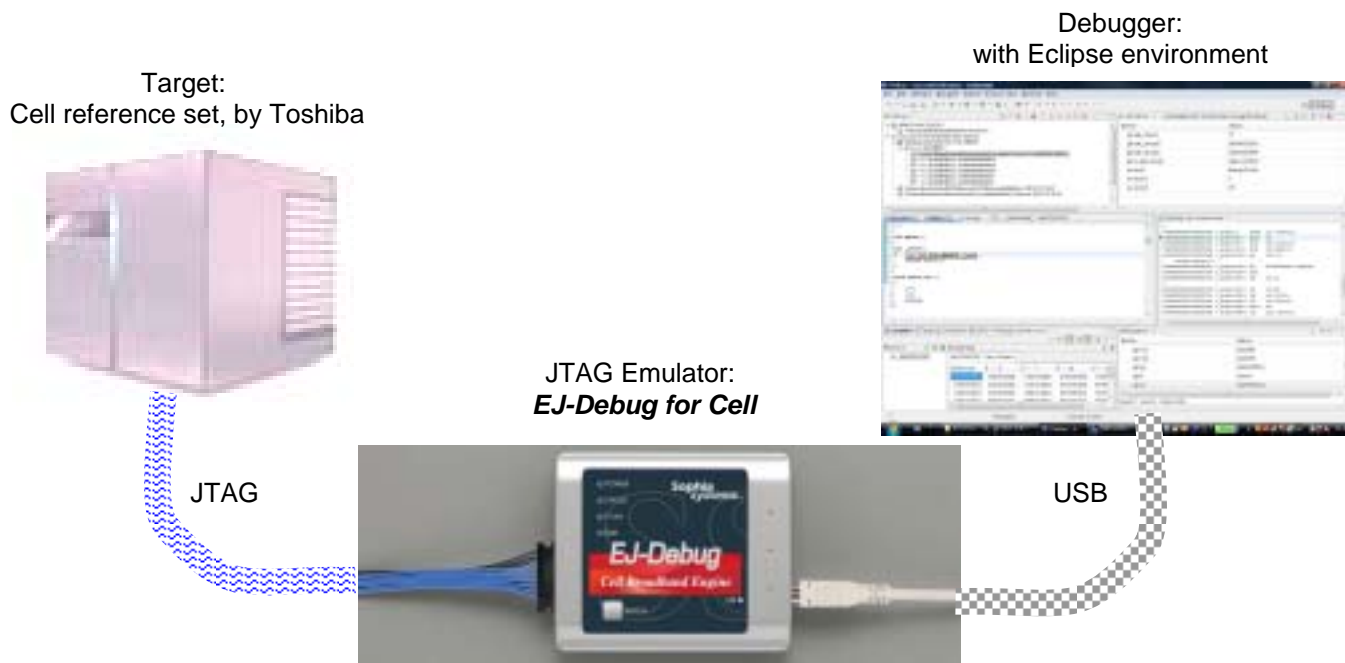




EJ-DebugII for Cell Broadband Engine



Development Advantages using EJ-Debug JTAG emulator

Debug before the OS starts

- Boot program development debugging.
- Hardware start-up.

Debug and maintenance in the field

- Operate by USB bus power.
- Small and easy to carry.

Debug after the OS starts

- Device driver development debugging.

Debugger

- The Eclipse integration development environment is used as the software development tool and debugger.
- Eclipse controls the EJ-Debug JTAG directly.
* Installation of the "EJD ECLPI Cell" software for Windows2000/XP is necessary.

Feature of Eclipse integration development environment

A User can obtain Eclipse via open source free of charge.

It's easy to use and you can expect improvements in development efficiency because the necessary series of work tools for program development like an editor, compiler, and debugger are using a unified interface.

For example, there is no need to set up the tool for each session because it's possible to configure for speedy development for a series of debugging work sequences right after editing the design source files for compiling.

Specifications

Target CPU	Cell Broadband Engine
Target Vcc	Vcc 1.2 V
Memory & I/O	Entire space is available to the User
Interrupts	Both internal and external interrupts are available to the User
Breakpoints & Break Options	Execution address break options: <ul style="list-style-type: none"> ■ 1 hardware breakpoint Execution instruction address: Max 1 point ■ Unlimited software breakpoints ■ Other break options: Forced break from Debug Monitor
EJ-Debug Control from Eclipse	Program download Go Execution Step Execution Break Setting Register reference change Memory reference change

Configuration

The EJ-Debug for Cell Broadband Engine provides high level software debugging from your Windows 2000/XP host computer.

Hardware:

A EJ-Debug II for Cell Broadband Engine system consists of the Cell Probe Set with USB host interface.
(EJ-Debug for Cell Broadband Engine does not support other embedded CPU types.)

Software:

The following software comes standard with the probe set.
 Eclipse Run timeZylin CDT
 Java Runtime Environment Installation instructions.

Supported Tool Chains:

EJ-Debug for Cell supports the following compilers and OS types*:

Language:

C/C++

Compilers:

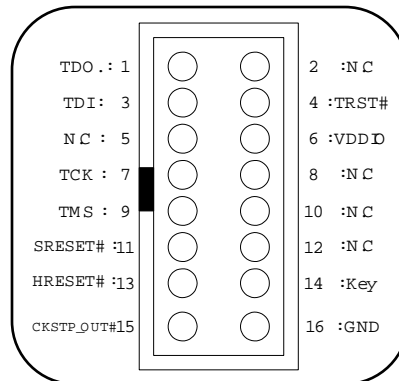
GCC

* Please contact Sophia Systems for the latest tool chain information.

Media:

CD-ROM

Target ICE Connections



JTAG Interface Connector Pin Assignment (Top View)

Ordering Information

Part No.	Description
EJD6220F	Probe Set, EJ-Debug II for Cell Broadband Engine with USB 2.0 host interface Includes EJD/Eclipse Debugger for Windows® XP / 2000 / Vista *

System requirements for EJD/Eclipse Debugger:

OS	Memory	Hard Disk
Windows XP/2000	512 Mbytes	1G byte for installation
Windows Vista	512 Mbytes	1G byte for installation

Notes: * Vista (32-bit version): driver software update is required.
 * Vista (64-bit version): contact Sophia Systems for EJD/Eclipse updates.
 * XP (64-bit version): driver software update is required.
 * XP (64-bit version): operation-confirmed with the AMD Athlon64.

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