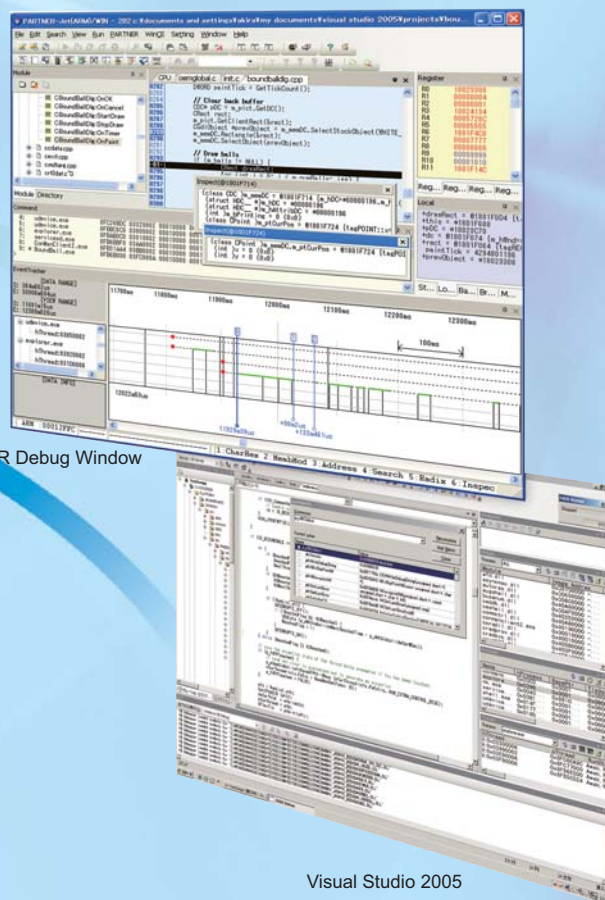
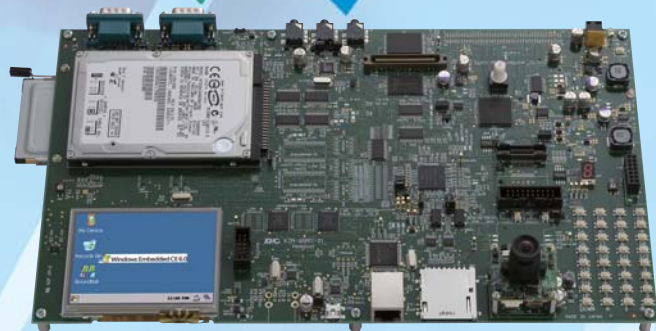
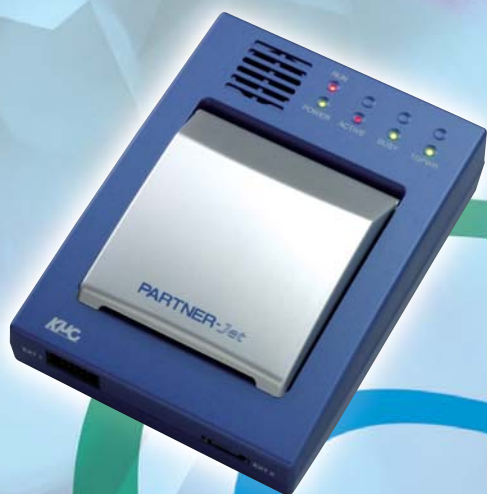


JTAG Emulator PARTNER-*Jet* for Windows CE

**Supports Windows CE 5.0/ Windows Embedded CE 6.0
ARM, MIPS, SH CPU**

Features

- Source code debugging on Windows CE by ICE
- Debugging the final product software generated by Release Build
- Fast pace debugging is possible with actual running speed without any system load
- Real action speed debugging without system loads like debug monitor etc.
- No connection other than JTAG is required
- Utilize ICE functions like Hardware break
- Event Tracker graphically displays task and process switching in RTOS
- Can use debugger from Visual Studio 2005 by supporting eXDI2



PARTNER Debug Window

Visual Studio 2005

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Comparison of Windows CE Debugging Features on Windows Embedded CE 6.0 (is supported, x is not supported, is with condition)

	PARTNER-Jet	eXDI2	Kernel Debugger	Application Debugger	Commonly used ICE
Object to debug					
eBoot			x	x	(*2)
Kernel			(*1)	x	(*2)
OEM Adaptation Layer			(*1)	x	(*2)
Kernel Area Driver				x	x
User Area Driver				x	x
ROM Application					x
File Application					x
Effect to the System					
Using Target Memory	None	ROM/RAM	ROM/RAM	RAM	
Increase performance load by debugging	None	Small	Medium	Medium to Large	
Changing Target Code (Adding debug feature and so on)	None	Yes	Yes	Yes	

*1 Cannot debug it before starting debug module in Windows CE and Interrupt Handler.

*2 Commonly used ICEs cannot interpret Microsoft debug information, so they can debug only with the disassembled code (without source code, symbols).

Source code debugging on Windows CE by ICE

Supporting Windows CE by PARTNER-Jet enables source code debugging without Platform Builder, Visual eMbedded Visual C++ or Visual Studio 2005. PARTNER, the debugger software, newly supports the debugging information which is generated by Microsoft Compiler for Windows CE. Moreover, as PARTNER also supports the MMU space, you can debug the entire C/C++ software which running on Windows CE, not only debug boot loader or kernel but also application and DLL.

Debugging the final product software generated by Release Build

Fast pace debugging is possible with actual running speed without any system load, such as debug monitor.

PARTNER-Jet can debug the software by "Release Build" as well as "Debug Build". In addition, no extra debugging component is necessary in target software. (Debugging by Platform Builder, Visual Studio, or eMbedded Visual C++ requires monitor programs in target) Therefore, you can debug in the same condition of the end product without CPU load and Memory reduction. It is useful in solving problems of complicated bugs that do not occur in conditions other than the end product. Through this, you can improve the debugging environment without any stress.

No connection other than JTAG is required

Until recently, during debugging by Platform Builder or eMbedded Visual C/C++, it required to communicate with monitor program running on target through a communication device such as RS232C/Ethernet/USB and so on. For example, in the case of mobile audio players having only USB, it had to share the USB port and bandwidth between application and debugger. This can be reduced the efficiency of debugging. PARTNER-Jet uses JTAG only, and other communication devices are not required to debug. Therefore the communication devices are able to open up to the application running on target.

Utilize ICE functions like Hardware break

With PARTNER-Jet, you can use the advanced debug functions of ICE. It can be monitoring the memory access by utilizing H/W breakpoints. Especially, ARM9 CPU which hardware functions can be accessed by only JTAG, you can use hardware breakpoints such as data access break at debugging without any problems. Apart from this, PARTNER-Jet supports multi-core debugging. It can be used for developing Windows CE devices with multi-core. Also, the existing conventional features of PARTNER-Jet like writing to flash memory are available.

Event Tracker graphically displays task and process switching in RTOS

Event Tracker, a new feature of PARTNER debugger, graphically displays task and process switching in RTOS, and of course it supports Windows CE as well. It helps to analyze the developed software with macro view. Further more, Event Tracker cooperates with the execution trace of CPU such as ETM trace and AUD trace. With PARTNER-Jet Model 40 Giga Trace, you can analyze the task and process level by Event Tracker with macro view and the function and instruction level with micro view by CPU execution trace seamlessly.

Can use debugger from Visual Studio 2005 by supporting eXDI2

PARTNER-Jet Windows CE debug option supports eXDI2 which is the latest specification for using JTAG Emulator from Visual Studio for Windows Embedded CE 6.0. This allows users to use PARTNER-Jet from accustomed Visual Studio 2005. Of course while you are debugging by PARTNER-Jet through Visual Studio 2005, you can launch PARTNER and debug closer to the Hardware side.

PARTNER-Jet Windows CE Debug Option (For ARM, MIPS, SH)

For Windows CE debugging, it is required to have PARTNER-Jet, Windows CE debug Option software, and Annual Support Service

* Windows CE Debug Option is required for each PARTNER-Jet. In case of debugging the different CPU series, it required the option software for each CPU.

* Windows CE 4.x and earlier version are not supported.

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