

Macraigor Systems

Hardware JTAG/BDM Interface cables

Manufacturer	Processor	Wiggler™	Raven™	usbWiggler™	usb2Demon™	usb2Sprite™	mpDemon™
AMCC	PPC405	WPPC4xx	RPPC	UW-AMCC	USB2-AMCC		MPPC
	PPC440EP/GP/GX	WPPC4xx	RPPC	UW-AMCC	USB2-AMCC		MPPC
AMD	Athlon		RAMDK7				MAMDK7
	Athlon/Duron		RAMDK78				MAMDK78
	Geode NX		Please ask				
	8 th Gen x86		RAMDG8				MAMDG8
	SC520	WNPJ-AMD	RAMD	UW-AMD	USB2-AMD		
Alchemy/AMD	Au1000	WNPJ-MIPS	RMIPS	UW-MIPS	USB2-MIPS	USB2SP-MIPS	MMIPS
	Au1100	WNPJ-MIPS	RMIPS	UW-MIPS	USB2-MIPS	USB2SP-MIPS	MMIPS
	Au1200	WNPJ-MIPS	RMIPS	UW-MIPS	USB2-MIPS	USB2SP-MIPS	MMIPS
	Au1500	WNPJ-MIPS	RMIPS	UW-MIPS	USB2-MIPS	USB2SP-MIPS	MMIPS
	Au1550	WNPJ-MIPS	RMIPS	UW-MIPS	USB2-MIPS	USB2SP-MIPS	MMIPS
ARM	ARM7TDMI	WNPJ-ARM14	RARM-14	UW-ARM14	USB2-ARM14	USB2SP-ARM20	MARM-14
		WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20		MARM-20
	ARM710T	WNPJ-ARM14	RARM-14	UW-ARM14	USB2-ARM14	USB2SP-ARM20	MARM-14
		WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20		MARM-20
	ARM720T	WNPJ-ARM14	RARM-14	UW-ARM14	USB2-ARM14	USB2SP-ARM20	MARM-14
		WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20		MARM-20
	ARM740T	WNPJ-ARM14	RARM-14	UW-ARM14	USB2-ARM14	USB2SP-ARM20	MARM-14
		WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20		MARM-20
	ARM9TDMI	WNPJ-ARM14	RARM-14	UW-ARM14	USB2-ARM14	USB2SP-ARM20	MARM-14
		WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20		MARM-20
	ARM920T	WNPJ-ARM14	RARM-14	UW-ARM14	USB2-ARM14	USB2SP-ARM20	MARM-14
		WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20		MARM-20
	ARM922T	WNPJ-ARM14	RARM-14	UW-ARM14	USB2-ARM14	USB2SP-ARM20	MARM-14
		WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20		MARM-20
	ARM926T	WNPJ-ARM14	RARM-14	UW-ARM14	USB2-ARM14	USB2SP-ARM20	MARM-14
WNPJ-ARM20		RARM-20	UW-ARM20	USB2-ARM20		MARM-20	
ARM940T	WNPJ-ARM14	RARM-14	UW-ARM14	USB2-ARM14	USB2SP-ARM20	MARM-14	
	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20		MARM-20	
ARM946T	WNPJ-ARM14	RARM-14	UW-ARM14	USB2-ARM14	USB2SP-ARM20	MARM-14	
	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20		MARM-20	
ARM1136	WNPJ-ARM14	RARM-14	UW-ARM14	USB2-ARM14	USB2SP-ARM20	MARM-14	
	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20		MARM-20	
Atmel	AT75C220	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20	USB2SP-ARM20	MARM-20
	AT91Fxxx AT91FRxxx AT91Mxxx AT91Rxxx AT91SAM	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20	USB2SP-ARM20	MARM-20
	ARM9		RARM-20	UW-ARM20	USB2-ARM20	USB2SP-ARM20	MARM-20
Broadcom	BDM1250	WNPJ-MIPS	RMIPS	UW-MIPS	USB2-MIPS	USB2SP-MIPS	MMIPS
	BDM7115	WNPJ-MIPS	RMIPS	UW-MIPS	USB2-MIPS	USB2SP-MIPS	MMIPS
Cirrus Logic	PS7111	WNPJ-ARM14 WNPJ-ARM20	RARM-14 RARM-20	UW-ARM14 UW-ARM20	USB2-ARM14 USB2-ARM20	USB2SP-ARM20	MARM-14 MARM-20
	EP72xx EP73xx	WNPJ-ARM14 WNPJ-ARM20	RARM-14 RARM-20	UW-ARM14 UW-ARM20	USB2-ARM14 USB2-ARM20	USB2SP-ARM20	MARM-14 MARM-20
	CS89712	WNPJ-ARM14 WNPJ-ARM20	RARM-14 RARM-20	UW-ARM14 UW-ARM20	USB2-ARM14 USB2-ARM20	USB2SP-ARM20	MARM-14 MARM-20
FreeScale	MAC7xxx (ARM7)	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20	USB2SP-ARM20	MARM-20
(ex Motorola)	MC9328MX (ARM9)	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20	USB2SP-ARM20	MARM-20
	iMX31 (ARM11)	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20	USB2SP-ARM20	MARM-20
	MCF5204 MCF5206				USB2-CF		
	MCF521x MCF522x MCF523x MCF524x				USB2-CF		
	MCF527x				USB2-CF		
	MCF528x				USB2-CF		
	MCF8307				USB2-CF		
	MCF547x MCF548x				USB2-CF		
	CPU32 (683xx)	WBDM32-3v WBDM32-5v		UW-BDM			
	MPC505 MPC555 MPC555-K2	WBDM8xx	RBDM8xx	UW-BDM	USB2-PPC		MBDM
	MPC561 MPC563 MPC565		RBDM8xx-LV	UW-BDM	USB2-PPC		MBDM
	MPC5200		RCOP	UW-COP	USB2-COP	USB2SP-COP	MCOP
	MPC5554		RONCE	UW-ONCE	USB2-ONCE		MONCE
	MPC603e	WNPJ-COP	RCOP	UW-COP	USB2-COP	USB2SP-COP	MCOP

	MPC740 MPC745	WNPJ-COP	RCOP	UW-COP	USB2-COP	USB2SP-COP	MCOP
	MPC750 MPC755	WNPJ-COP	RCOP	UW-COP	USB2-COP	USB2SP-COP	MCOP
	MPC8xx (2.8-5V)	WBDM8xx	RBDM8xx	UW-BDM	USB2-PPC		MBDM
	MPC8xx (low V)		RBDM8xx-LV	UW-BDM	USB2-PPC		MBDM
	MPC824x MPC825x MPC826x MPC827x MPC828x		RCOP	UW-COP	USB2-COP	USB2SP-COP	MCOP
FreeScale DSP	56300	WNPJ-ONCE	RONCE	UW-ONCE	USB2-ONCE	USB2SP-ONCE	MONCE
	56600	WNPJ-ONCE	RONCE	UW-ONCE	USB2-ONCE	USB2SP-ONCE	MONCE
	56800	WNPJ-ONCE	RONCE	UW-ONCE	USB2-ONCE	USB2SP-ONCE	MONCE
	M*Core	WNPJ-ONCE	RONCE	UW-ONCE	USB2-ONCE	USB2SP-ONCE	MONCE
	RedCap	WNPJ-ONCE	RONCE	UW-ONCE	USB2-ONCE	USB2SP-ONCE	MONCE
	StarCore	WNPJ-ONCE	RONCE	UW-ONCE	USB2-ONCE	USB2SP-ONCE	MONCE
IBM	PPC401Gx	WPPC4xx	R4xx	UW-AMCC	USB2-AMCC		M4xx
	PPC403Gx	WPPC4xx	R4xx	UW-AMCC	USB2-AMCC		M4xx
	PPC405Gx PPC405EP	WPPC4xx	R4xx	UW-AMCC	USB2-AMCC		M4xx
	PPC603e	WNPJ-COP	RCOP	UW-COP	USB2-COP	USB2SP-COP	MCOP
	PPC603ev	WNPJ-COP	RCOP	UW-COP	USB2-COP	USB2SP-COP	MCOP
	PPC740	WNPJ-COP	RCOP	UW-COP	USB2-COP	USB2SP-COP	MCOP
	PPC750	WNPJ-COP	RCOP	UW-COP	USB2-COP	USB2SP-COP	MCOP
	PPC750CX	WNPJ-COP	RCOP	UW-COP	USB2-COP	USB2SP-COP	MCOP
	PPC750CXe	WNPJ-COP	RCOP	UW-COP	USB2-COP	USB2SP-COP	MCOP
	PPC750FX	WNPJ-COP	RCOP	UW-COP	USB2-COP	USB2SP-COP	MCOP
IDT	RC32332	WIDT	RIDT				MIDT
	RC32334	WIDT	RIDT				MIDT
	RC32355	WIDT	RIDT				MIDT
	RC32364	WIDT	RIDT				MIDT
Innovastic	Fido1100						
Intel	80219	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20	USB2SP-ARM20	MARM-20
	80321	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20	USB2SP-ARM20	MARM-20
	80331 80332 80333	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20	USB2SP-ARM20	MARM-20
	80341 80342	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20	USB2SP-ARM20	MARM-20
	80321	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20	USB2SP-ARM20	MARM-20
	IOP303 IOP315 IOP321 IOP331 IOP332 IOP333	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20	USB2SP-ARM20	MARM-20
	IQ80315	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20	USB2SP-ARM20	MARM-20
	IQ81341-2	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20	USB2SP-ARM20	MARM-20
	IXC1100	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20	USB2SP-ARM20	MARM-20
	IXP42x	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20	USB2SP-ARM20	MARM-20
	IXP46x	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20	USB2SP-ARM20	MARM-20
	IXP23xx	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20	USB2SP-ARM20	MARM-20
	IXP24xx	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20	USB2SP-ARM20	MARM-20
	IXP28xx	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20	USB2SP-ARM20	MARM-20
	PXA210	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20	USB2SP-ARM20	MARM-20
	PXA25x PXA26x PXA27x PXA29x	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20	USB2SP-ARM20	MARM-20
Lexra	MIPS32	WNPJ-MIPS	RMIPS	UW-MIPS	USB2-MIPS	USB2SP-MIPS	MMIPS
LSI Logic	TiniRISC		Please ask				
MIPS Cores	MIPS32-4Kc	WNPJ-MIPS	RMIPS	UW-MIPS	USB2-MIPS	USB2SP-MIPS	MMIPS
	MIPS32-4Ke	WNPJ-MIPS	RMIPS	UW-MIPS	USB2-MIPS	USB2SP-MIPS	MMIPS
	MIPS32-4Kp	WNPJ-MIPS	RMIPS	UW-MIPS	USB2-MIPS	USB2SP-MIPS	MMIPS
	MIPS32-4Km	WNPJ-MIPS	RMIPS	UW-MIPS	USB2-MIPS	USB2SP-MIPS	MMIPS
	MIPS32364	WNPJ-MIPS	RMIPS	UW-MIPS	USB2-MIPS	USB2SP-MIPS	MMIPS
	MIPS64-5Kc	WNPJ-MIPS	RMIPS	UW-MIPS	USB2-MIPS	USB2SP-MIPS	MMIPS
NEC	VR5432 (MIPS64)	WNPJ-MIPS	RMIPS	UW-MIPS	USB2-MIPS	USB2SP-MIPS	MMIPS
	VR5500 (MIPS64)	WNPJ-MIPS	RMIPS	UW-MIPS	USB2-MIPS	USB2SP-MIPS	MMIPS
NetSilicon	NetARM +15	WNPJ-ARM14	RARM-14	UW-ARM14	USB2-ARM14		MARM-14
	NetARM +40	WNPJ-ARM14	RARM-14	UW-ARM14	USB2-ARM14		MARM-14
	NetARM +50	WNPJ-ARM14	RARM-14	UW-ARM14	USB2-ARM14		MARM-14
	NS7520	WNPJ-ARM14	RARM-14	UW-ARM14	USB2-ARM14		MARM-14
	NS9360	WNPJ-ARM14	RARM-14	UW-ARM14	USB2-ARM14		MARM-14
	NS9750 NS9775	WNPJ-ARM14	RARM-14	UW-ARM14	USB2-ARM14		MARM-14
	NSARM9	WNPJ-ARM14	RARM-14	UW-ARM14	USB2-ARM14		MARM-14
Philips	PR1900	WNPJ-MIPS	RMIPS	UW-MIPS	USB2-MIPS	USB2SP-MIPS	MMIPS
PLX	IOP 480	WPPC4xx	R4xx				M4xx
Samsung	KS17C4000 (A7)	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20	USB2SP-ARM20	MARM-20
	S3C44BOX (A7)	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20	USB2SP-ARM20	MARM-20
	S3C4510 (A7)	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20	USB2SP-ARM20	MARM-20
	S3C4530 (A7)	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20	USB2SP-ARM20	MARM-20
	S5N8947 (A7)	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20	USB2SP-ARM20	MARM-20
	S3F441FX (A7)	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20	USB2SP-ARM20	MARM-20
	S3C2410 (A920)	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20	USB2SP-ARM20	MARM-20
	S3C2500 (A920)	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20	USB2SP-ARM20	MARM-20
Sharp	LH75400 (ARM7)	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20	USB2SP-ARM20	MARM-20

	LH75401 LH75410 LH75411						
	LH77790 (ARM7)	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20	USB2SP-ARM20	MARM-20
	LH79520 (ARM7) LH79524	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20	USB2SP-ARM20	MARM-20
	LG7A400	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20	USB2SP-ARM20	MARM-20
	LH7A404 (A920)	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20	USB2SP-ARM20	MARM-20
ST Micro	STR710 STR720	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20	USB2SP-ARM20	MARM-20
Tensilica	Xtensa	WNPJ-ONCE	RONCE	UW-ONCE	USB2-ONCE	USB2SP-ONCE	MONCE
Toshiba	TX4938		RTX49		USB2-TX49		MTX49
Transmeta	Efficeon		Please ask				
Triscend	ARM-A7	WNPJ-ARM20	RARM-20	UW-ARM20	USB2-ARM20	USB2SP-ARM20	MARM-20
	8051-E5	WNPJ-ONCE	RONCE	UW-ONCE	USB2-ONCE	USB2SP-ONCE	MONCE
Price		€205 GBP140	€788 GBP535	€295 GBP195	€788 GBP535	€263 GBP175	€1725 GBP1195

BDM/JTAG Interfaces

Wiggler™

Low-cost BDM/JTAG interface, ideal for small, cost sensitive development projects and for production programming (using the OCD Flash programming software). Connects to a PC parallel port running in SPP mode.

Raven™

High speed BDM/JTAG interface designed for debugging and high-speed programming. Transfers data up to 30 times faster than the Wiggler. Connects to a PC parallel port running in ECP or EPP modes.

usbWiggler™

The usbWiggler™ is a Universal Serial Bus interface for JTAG and BDM debugging. Faster than the classic parallel port Wiggler, it is a stable, easy to use device and is fully compatible with all of our software. In addition, it is a true USB 2.0 high speed device.

usb2Demon™

High speed BDM/JTAG interface designed for debugging and high-speed programming. Data transmission rates up to 480Mbytes/sec. Connects to USB2.0 and is powered from the port. Ideal for use with laptops! The USB2Demon supersedes the slower USBDemon interface.

usb2Sprite™

Medium speed JTAG interface designed for debugging and high-speed programming. USB Clock rate up to 6MHz. Connects to USB2.0 and is powered from the port. Ideal for use with laptops!

mpDemon™

Top of the range BDM/JTAG interface with Ethernet, PC parallel and RS232 port interfaces. Modular in construction offering support for a wide range of CPU families and very fast data transfer speeds. The above price includes the mpDemon Universal chassis plus one - OCD module. Additional modules may be purchased for just **€295 (GBP195)** each.

Compatible Debuggers

Macraigor OCDemon™ Technology is incorporated in most of the world's debugging systems for BDM/JTAG interfaces. Great Western Microsystems is pleased to bring this technology directly to the market. Please check compatibility before ordering.

Please note

No software is supplied with Macraigor OCDemon hardware interfaces. If you have any questions, please ask.

Software Tools

All software tools are downloaded from our web site www.gwmicros.com. Try them out first (if you have an OCDemon hardware interface) to confirm compatibility and when you are happy all is well, you need to purchase registration key from us. We will then sell you the key and your software will then be locked to the PC it is installed on. In the case of the usb2Demon, usb2Sprite, usbWiggler and mpDemon, the software may be registered to the interface itself, allowing the interface to be used with any PC.

OCD-DEB

OCD Command Line Debugger

£free

MS-Windows based debugger to help you bring up the OCD hardware. Supplied free of charge and "as is". Comments are welcome but the product is not supported. Versions available for Windows NT/2000/XP, Vista and Linux.

TACCESS

Target Access Utility

€520, GBP345*

A DLL and a set of 19 .EXE programs give access to the OCDemon run control functionality including downloading a binary image, read/write to memory, read/write to registers, running and stopping the CPU, RAM test etc. The DLL can be used with Delphi, VB, and MSC++ etc for production testing. Supported by Windows NT/2000/XP only.

OCDFLASH-SA

OCD Flash Programmer – Stand Alone version

€520, GBP345*

Lets you program on-board Flash EPROM via a Macraigor BDM/JTAG hardware cable. A driver is required for

