

# Spectrum Digital Emulator Selection Guide

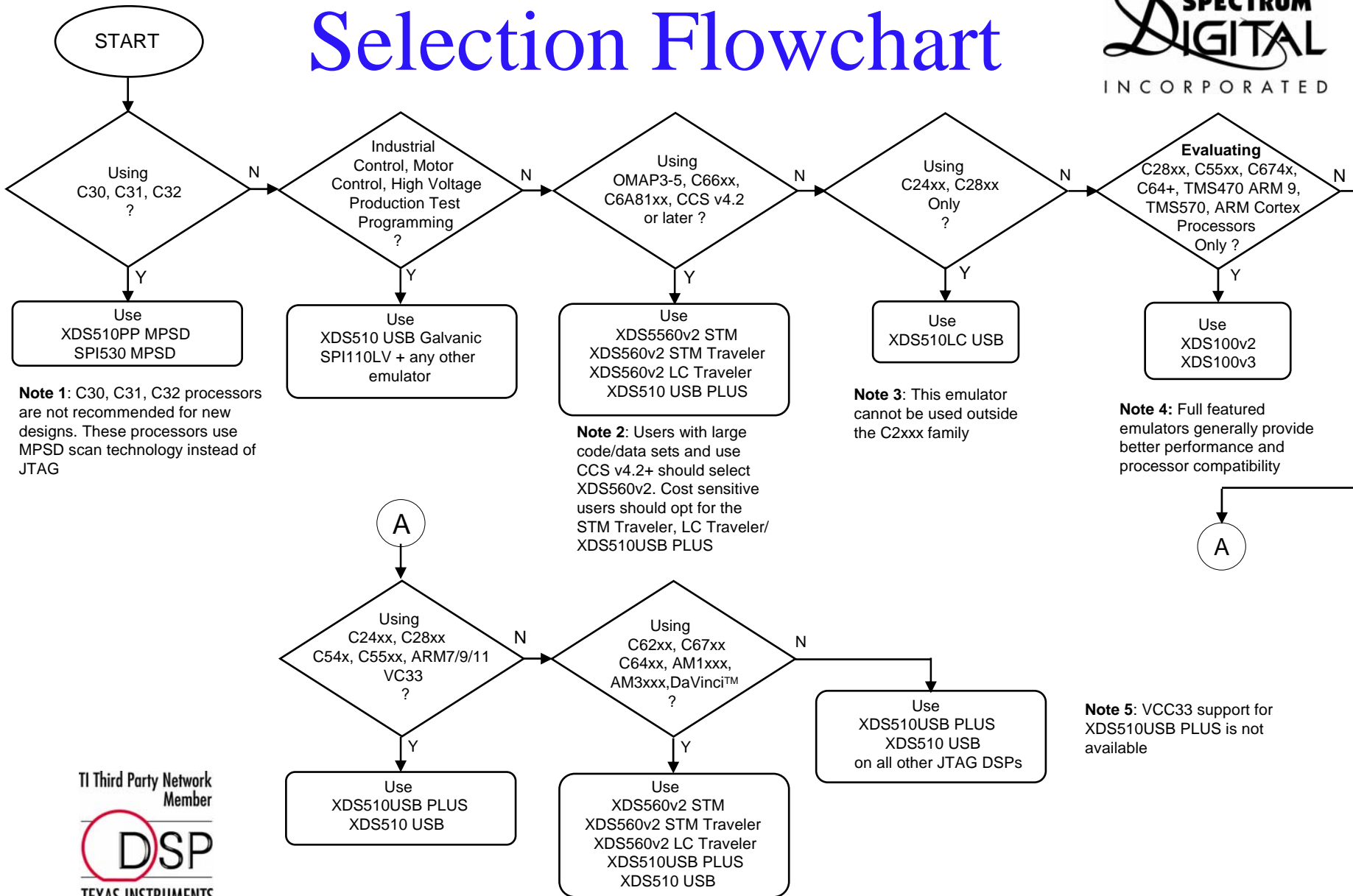
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# Selection Flowchart



# Features of the XDS560v2 STM



## HARDWARE

- Spectrum Digital's XDS560v2 is the TI XDS560v2 reference design
- Supports following TI Processors families: C64x+, ARM, C28xxx, OMAP3-5, C5000, C6000, OMAP-L137, C6A816x, C66xx, AM1xxx, AM3xxx with **JTAG** and **CJTAG** interfaces
- Modular tail connector for alternate JTAG headers (4 adapters included)
- Advanced emulation controller for high performance
- MIPI System Trace capability, with 128 Mbyte trace buffer, up to 100 MHz export clock
- USB 2.0 and Ethernet communications to host PC
- Supports +1.2 volt to +4.1 volt JTAG interfaces
- 9 LEDs for operational status
- User accessible RESET switch
- Power provided by supplied power supply

## SOFTWARE

- Compatible with TI Code Composer Studio v4.2 and later
- Compatible with DSP BIOS
- Compatible with Windows 2000, XP, Vista, Win 7, and Linux (CCS 5.x) Operating Systems



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# Features of the XDS560v2 STM Traveler



## HARDWARE

- Spectrum Digital's XDS560v2 is the TI XDS560v2 reference design
- Supports following TI Processors families: C64x+, ARM, C28xxx, OMAP3-5, C5000, C6000, OMAP-L137, C6A816x, C66xx, AM1xxx, AM3xxx with **JTAG** and **CJTAG** interfaces
- Modular tail connector with CT120 header, CT120-T114 adapter included
- Advanced emulation controller for high performance
- MIPI System Trace capability, with 128 Mbyte trace buffer, up to 100 MHz export clock
- USB 2.0 communications to host PC
- Supports +1.2 volt to +4.1 volt JTAG interfaces
- 6 LEDs for operational status
- User accessible RESET switch
- Power provided by USB cable, **no power supply** required

## SOFTWARE

- Compatible with TI Code Composer Studio v4.2 and later
- Compatible with DSP BIOS
- Compatible with Windows 2000, XP, Vista, Win 7, and Linux (CCS 5.x) Operating Systems



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# Features of the XDS560v2 LC Traveler



## HARDWARE

- Spectrum Digital's XDS560v2 is the TI XDS560v2 reference design
- Supports following TI Processors families: C64x+, ARM, C28xxx, OMAP3-5, C5000, C6000, OMAP-L137, C6A816x, C66xx, AM1xxx, AM3xxx with **JTAG** and **CJTAG** interfaces
- Modular tail connector with CTI20 header, CTI20-TI14 adapter included
- Advanced emulation controller for high performance
- USB 2.0 communications to host PC
- Supports +1.2 volt to +4.1 volt JTAG interfaces
- 6 LEDs for operational status
- User accessible RESET switch
- Power provided by USB cable, **no power supply** required

## SOFTWARE

- Compatible with TI Code Composer Studio v4.2 and later
- Compatible with DSP BIOS
- Compatible with Windows 2000, XP, Vista, Win 7, and Linux (CCS 5.x) Operating Systems



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# Features of the XDS510USB PLUS



## HARDWARE

- Supports TI Processors with JTAG Interface (IEEE 1149.1)
- Compatible with Spectrum Digital XDS510USB
- Modular tail connector for alternate JTAG headers
- Advanced emulation controller for high performance
- ARM Ltd. style adaptive clocking support
- Variable/Programmable TCLK
- Compatible with USB 2.0 interface on PC, no adapter card required
- Supports +1.0 volt to +5 volt JTAG interfaces
- 1 LED for operational status
- User accessible RESET switch
- Power provided by host USB port or USB hub

## SOFTWARE

- Compatible with TI Code Composer Studio
- Compatible with DSP BIOS
- Compatible with Spectrum Digital's Flash Programming Utility
- Compatible with Temento DiaTem Boundary Scan Debugger
- Compatible with Windows 2000, XP, Vista, Win 7, and Linux (CCS 5.x) Operating Systems



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# Features of the XDS510USB Galvanic



## HARDWARE

- Supports TI Processors (C2xxx, C54xx, C55xx, C67xx, C64xx, TMS470 ARM, OMAP) with JTAG Interface (IEEE 1149.1)
- Compatible with Spectrum Digital XDS510 USB JTAG Emulator
- Voltage Isolation provided by IL715, IL717, HCPL-260L (UL1577 rated for 2500V<sub>rma</sub> for 1 minute and IEC 61010-1, Pollution Degree II, Material Group III, Max working voltage 300 V<sub>rms</sub> Common Mode Transient Immunity 30Kv/us @ V<sub>cm</sub>=300V)
- Voltage isolation on PWB with 6mm. Minimum clearances and creepage distances
- Compatible with USB 1.x and USB 2.0 (full speed)
- Compatible with USB interface on PC, no adapter card required
- Supports +3.3 volt and +5 volt JTAG interfaces(+3.3 to 1.8 with Low Voltage Adapter)
- 1 status LED for USB operational status
- Power provided by host USB port/hub and target system

## SOFTWARE

- Compatible with TI Code Composer Studio
- Compatible with Spectrum Digital's Flash Programming Utility
- Works with emulation driver releases 2.21.03 or higher
- Compatible with Windows 2000, XP, Vista, Win 7, and Linux (CCS 5.x) Operating Systems



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# Features of the XDS510 USB



## HARDWARE

- Supports TI Processors with JTAG Interface (IEEE 1149.1) (C24x, F240x, F28xxx, VC33, C5xxx, C6xxx, TMS470 ARM, OMAP, DaVinci™)
- Operates off PC/laptop/HUB USB port, **no** power adapter required
- Supports USB 1.x and USB 2.0 (full speed)
- Compatible with +3.3V or +5V processors (+1.8 with LVA)
- 1 LED for operational status
- Compatible with SPI110LV opto pod
- Compatible with 4 channel JTAG expander
- Compatible with Low voltage Adapters

## SOFTWARE

- Compatible with TI Code Composer Studio
- Compatible with DSP BIOS
- Compatible with Windows 2000, XP, Vista, Win 7, Linux (CCS 5.x) Operating Systems
- Operates with "SDFlash" stand alone programming utility from Spectrum Digital
- Compatible with Programming utilities developed by Texas Instruments



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# Features of the C2000 XDS510LC USB



## HARDWARE

## SOFTWARE

- Supports TI C24xx, C28xxx Digital Signal Controllers only with JTAG Interface (IEEE 1149.1)
- Operates off PC/laptop/HUB USB port, **no** power adapter required
- Supports USB 1.x and USB 2.0 (full speed)
- Compatible with +3.3V or +5V processors (+1.8 with LVA)
- 1 LED for operational status
- Compatible with SPI110LV opto pod
- Compatible with 4 channel JTAG expander
- Compatible with Low voltage Adapters
- Compatible with TI Code Composer Studio Rev 3.1 or later
- Compatible with DSP BIOS
- Compatible with Windows 2000, XP, Vista, Win 7, Linux (CCS 5.x) Operating Systems
- Compatible with Windows 2000, XP Operating Systems
- Operates with "SDFlash" stand alone programming utility from Spectrum Digital
- Compatible with Spectrum Digital's "C language "XMLGUI" interface
- Compatible with Programming utilities developed by Texas Instruments



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# Features of the XDS510PP PLUS



## HARDWARE

- Supports TI Processors with JTAG Interface (IEEE 1149.1) (C2xx, C24x, F240x, F28xxx, VC33, C4x, C5x, C5xxx, C6xxx, TMS470 ARM, OMAP, DaVinci™)
- Operates with parallel port on PC or laptop, no external power adapter required when +5 supplied by target
- Supports bi-directional, ECP, and EPP transfers
- Compatible with +3.3V or +5V processors (+1.8 with LVA)
- 1 LED for JTAG active status
- Powered by target or supplied adapter (+5 volts required)
- Compatible with SPI110LV opto pod
- Compatible with 4 channel JTAG expander
- Compatible with Low voltage Adapters

## SOFTWARE

- Compatible with TI Code Composer Studio
- Compatible with DSP BIOS
- Compatible with Windows 2000, XP, Vista, and Win 7 32 bit Operating Systems
- Operates with "SDFlash" stand alone programming utility from Spectrum digital
- Compatible with Programming utilities developed by Texas Instruments



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# Features of the XDS100v2



## HARDWARE

- Supports TI C28xx, C550x, C674x, C64+, TMS470 ARM 9, ARM Cortex Digital Signal processors only with JTAG Interface (IEEE 1149.1). See the TI wiki for all devices supported
- Operates off PC/laptop/HUB USB port, **no** power adapter required
- Supports USB 2.x
- Supports targets with +1.8V and +3.3V I/O levels
- Supports targets with 14-pin JTAG header
- Dimensions: 2.2"L x 1.0"W x .45H

## SOFTWARE

- Compatible with Code Composer Studio IDE™ Ver 4.2 and later from Texas Instruments
- Compatible with Windows XP, Vista, Win 7, and Linux (CCS 5.x) Operating Systems



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# Features of the XDS100v3

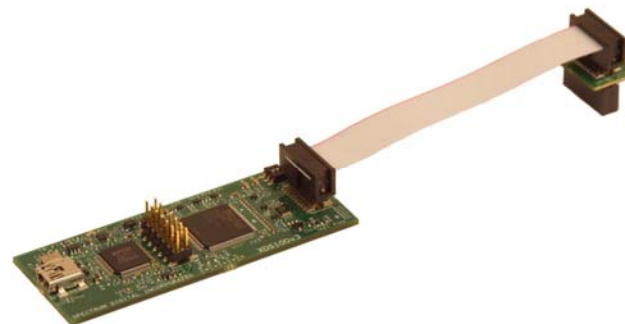


## HARDWARE

- Supports TI F28xx, C54xx, C55xx, C674x, C64+, C66x, TMS470, ARM 9, ARM Cortex™ Digital Signal processors only with **JTAG** and **CJTAG** Interface. See the TI wiki for all devices supported
- Operates off PC/laptop/HUB USB port, **no** power adapter required
- Supports USB 2.x
- Supports targets with +1.8V and +3.3V I/O levels
- Supports targets with CTI20 or TI14-pin JTAG headers
- Dimensions: 3.2"L x 1.2"W x .45H

## SOFTWARE

- Compatible with Code Composer Studio IDE™ Ver 5.x and later from Texas Instruments
- Supports Code composer Studio™ C2000 On-Chip Flash Programmer
- Compatible with Windows XP, Vista, Win 7, and Linux (CCS 5.x) Operating Systems



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# Features of the XDS510PP MPSPD



## HARDWARE

- Supports TI Digital Signal Processors with MPSPD Interface (TMS320C30/C31/C32)
- Operates with parallel port on PC or laptop, no external adapter required
- Supports 8 bit bi-directional parallel port interface
- Compatible with +3.3V or +5V processors
- 1 LED for active status
- Powered by target or supplied adapter (+5 volts required)

## SOFTWARE

- Compatible with TI Code Composer for TMS320C3x (includes 'C' compiler, assembler, linker, and debugger)
- Compatible with Win 98, ME, NT, 2000, XP Operating Systems



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# Features of the SPI530 MPD



## HARDWARE

- Supports TI Digital Signal Processors with MPD Interface (TMS320C30/C31/C32)
- Provides highest performance with internal high speed control processor
- Operates with parallel port on PC or laptop, no external adapter required
- Supports 8 bit bi-directional parallel port interface
- Compatible with +3.3V or +5V processors
- 1 LED for active status
- Powered by supplied adapter

## SOFTWARE

- Compatible with TI Code Composer for TMS320C3x (includes 'C' compiler, assembler, linker, and debugger)
- Compatible with Win 98, ME, NT, 2000, XP Operating Systems



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# Ordering Information



<u>Part #</u>	<u>Description</u>	<u>Price</u>
702592	XDS560v2 STM JTAG Emulator with 4 adapters	\$ 1495.00
702598	XDS560v2 STM Traveler JTAG Emulator (CTI20), with CTI20-TI14 pin adapter	\$ 1199.00
702597	XDS560v2 LC Traveler JTAG Emulator (CTI20), with CTI20-TI14 pin adapter	\$ 989.00
701907	XDS510USB PLUS JTAG Emulator , 20 pin CTI header 20-14 pin adapter included	\$ 1199.00
701910	XDS510USB Galvanic JTAG Emulator, 14 pin header	\$ 1995.00
701900	XDS510 USB JTAG Emulator, 14 pin header	\$ 989.00
701902	C2000 XDS510LC USB JTAG Emulator, 14 pin header	\$ 249.00
701014	XDS510PP PLUS JTAG Emulator, 14 pin header	\$ 495.00
702302	XDS100v2 JTAG Emulator	\$ 89.00
702305	XDS100v3 CJTAG/JTAG Emulator	\$ 129.00
701041	XDS510PP MPD Emulator, (C30/31/32) 14 pin header	\$ 1299.00
701121	SPI530 MPD Intelligent Emulator, (C30/31/32) 14 pin header	\$ 2499.00

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# Spectrum Digital Emulator Support and Contact Information

Main Support Site: <http://support.spectrumdigital.com/>  
Emulator and Target Board support, drivers and documentation  
may be found at the link above.

Emulator Support Website: <http://emulators.spectrumdigital.com/>

On Line Help Desk: <http://www.spectrumdigital.com> ->Support -> Help Desk

Support email: [support@spectrumdigital.com](mailto:support@spectrumdigital.com)

Support telephone: 1.281.494.4500 x-113

Fax: 1.281.494.5310

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# Spectrum Digital Warranty and Repair Information

Warranty Policy Website: <http://support.spectrumdigital.com/service/warranty/>

Repair and Return Website: [http://www.spectrumdigital.com/rma\\_form2.php](http://www.spectrumdigital.com/rma_form2.php)

RMA support telephone: 1.281.494.4500 x-131

Fax: 1.281.494.5310

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# Authorized Resellers



## United States and Canada

- ❖ Spectrum Digital, Inc., 1.281.494.4500 x-113
- ❖ Arrow Electronics, 1.800.833.3557
- ❖ Avnet, 1.800.332.8638
- ❖ Digi-Key Corporation, 1.800.344.4539
- ❖ Enable Engineering, 1.800.686.6428
- ❖ Mouser Electronics, 1.800.346.6873
- ❖ Newark, 1.800.463.9275

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# Authorized Resellers

## International



- ❖ **Argentine-Chile-Ecuador-Uruguay:** walterd.gallegos, 598.27.12.06.60
- ❖ **Australia:** Alfatek-Australia, 61.3.9720.5344
- ❖ **Brazil:** Anacom Software, 55.11.3422.4200
- ❖ **Bulgaria:** Akermann Electronics, 359.2.953.0078
- ❖ **Columbia:** HI-TECH AUTOMATIZACION S.A., 57.6.3257.441
- ❖ **France:** ISIT Societe, 33.561.30.69.00
- ❖ **Germany:** D.SignT, 49.2833.570977
- ❖ **India:** Embed Technologies Pvt Ltd, 91.80.26668180
- ❖ **India:** Trident Pvt Ltd, 91.011.5100.8155
- ❖ **Israel:** GS Tech, 972.3.9002727
- ❖ **Israel:** G.R Communication, Ltd, 972.77.49000327
- ❖ **Italy:** ART S.r.l., 39.0758.298501
- ❖ **Japan:** Monte System Corp, 81.3.5823.0191
- ❖ **Japan:** Roinos Company Ltd, 81.53.762.3681
- ❖ **Korea:** DS Technology, 82.2.855.4357
- ❖ **Korea:** Aditec, Inc. 82.2.2025.0088
- ❖ **Mexico:** DSPPROJECTS, SA DE CV, 33.3825.0667
- ❖ **PRC:** Beijing Open Lab System Inc, 86.10.8235.7579
- ❖ **PRC:** Premier Electronics, Shanghai-021.6196.1388, Beijing-010.6260.8088, Shenzhen-86.755.8305.4888, Chendu-86.28.8665.5313, HongKong-852.2268.9888
- ❖ **Poland:** RK System, 48.22.724.30.39
- ❖ **Netherlands/Benelux:** INDES, 31.0345.545.535
- ❖ **Russia:** SCANTI-Rus, Ltd., 7.095.781.4945
- ❖ **Singapore-Malaysia:** FTD Solutions, Pte Ltd, 65.6744.9789
- ❖ **Spain-Portugal:** Kyhe Ingenieria S.L., 34.934.18.5047
- ❖ **Switzerland:** MSP Kofel, 41.31972.3152
- ❖ **South Africa:** Technology Marketing Solutions cc, 27.11.882.6836
- ❖ **Sweden-Scandinavia:** Tricon AB, 46.40.67.017.10
- ❖ **Taiwan:** Microtime Computer Inc, 866.2.28811791
- ❖ **Turkey:** EMPA Elektronik, 90.212.465.7199 x-142
- ❖ **United Kingdom:** Kane Computing, 44 (0) 1606 351006
- ❖ **Viet Nam:** Vijatech Co. LTD. 84.4.785.3060

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