» MSM-LP Evaluation Kit «



MSM-LP Evaluation Kit

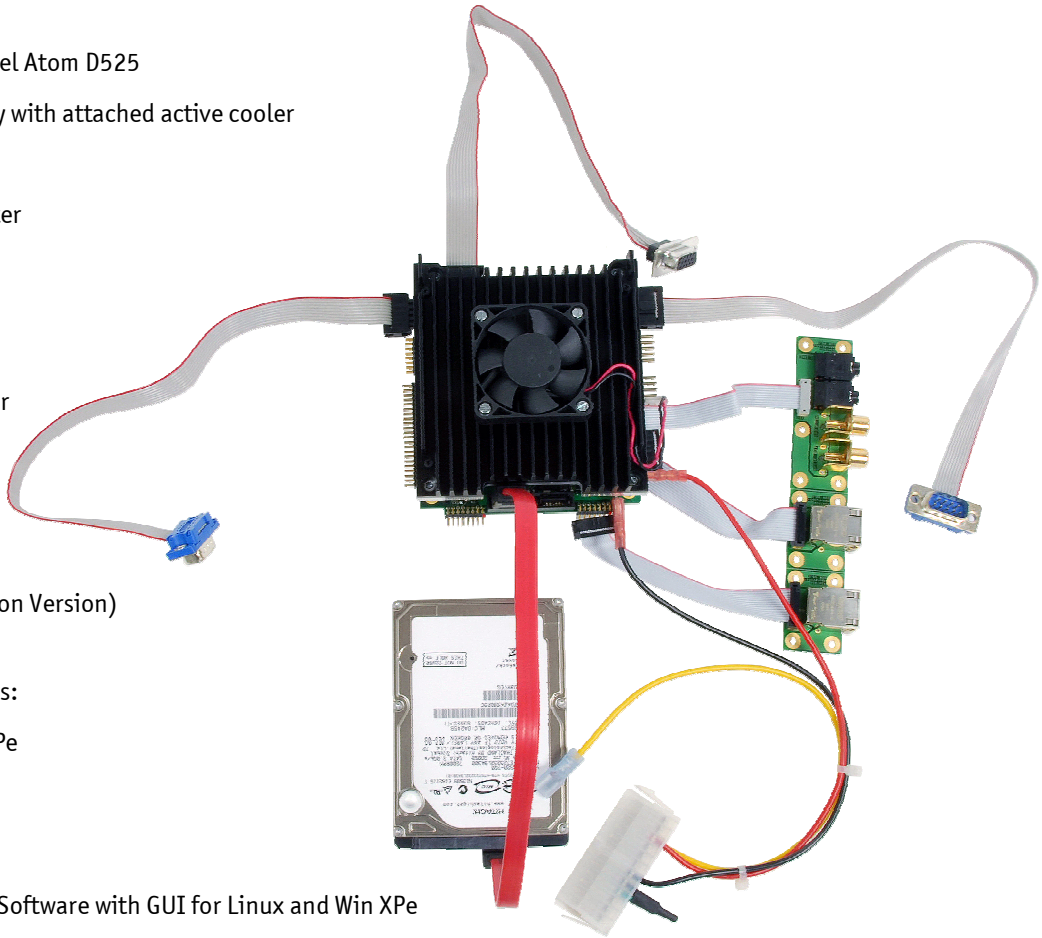
Document Revision 101

Ready to Run Package

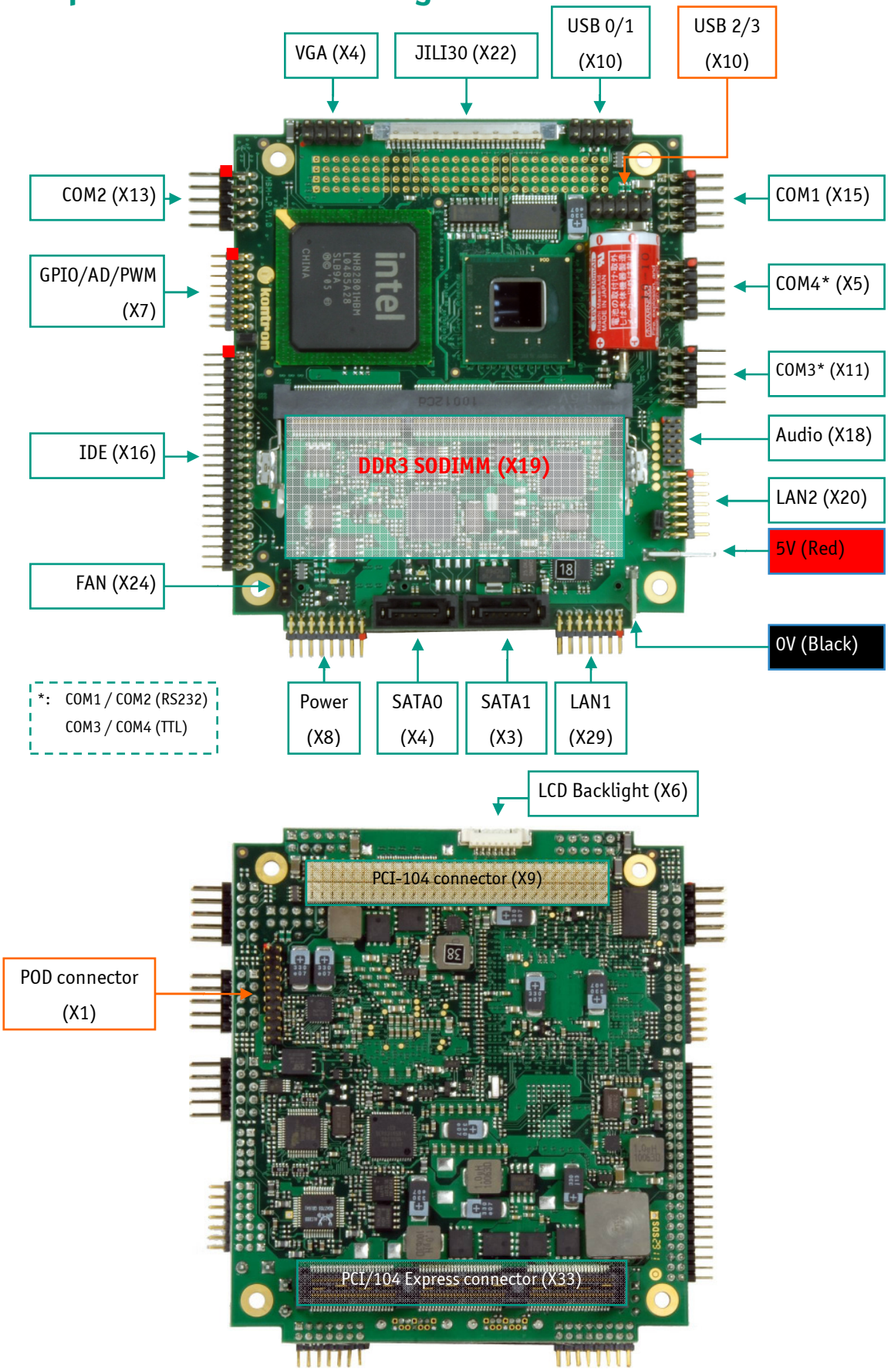
Product	Ordering Information	Quantity
MSM-LP Evaluation Kit	802359	1
MicroSpace MSM-LP D525 Board	802350	1
MSM-LP Heat Spreader Kit	802358	1
MSM-PC104 Active Cooler	802316	1
MSM-PC104 Cable Kit	802040	1
RAM 2GB DDR3 SODIMM	890681	1
ATX Power Supply		1
2.5" SATA Hard Disk		1

Included:

- MICROSPACE® MSM-LP
  PCI/104 Board with Intel Atom D525
- Heat spreader assembly with attached active cooler
- PC/104 Cable Kit
  - 9-Pin DSUB adapter
  - VGA adapter
  - SATA cables
  - LAN adapter
  - Audio adapter
  - ATX power adapter
- ATX Power Supply
- 2.5" SATA Hard Disk
- Dual Boot System
  - Win XPe (Evaluation Version)
  - Linux Fedora
- Board Support Packages:
  - Win XP and Win XPe
  - WES7
  - Linux
  - VxWorks
- GPIO / ADC / PWM Test Software with GUI for Linux and Win XPe
- Documentation



Component Connection Diagram



Operating System Support

The MSM-LP is an x86 compatible computer and supports a wide range of operating systems. Kontron provides BSPs for Microsoft Windows XP Embedded, Windows Embedded Standard 7, Fedora Linux and VxWorks.

Technical Support

Technicians and engineers from Kontron AG and/or its subsidiaries are available for technical support. We are committed to making our products easy to use and will help you to use our products in your systems.

For technical support, please consult our technical support department:

Web: http://support.kcc-ag.ch
Tel.: +41 (0) 32 681-5848
Fax: +41 (0) 32 681-5801

For the latest product documentation, utilities, drivers, additional tools and software please consult our website:

Web: http://kontron.com

Development Kit Features

Preloaded Hard Disk

The Development Kit contains a SATA hard disk with a pre-installed Fedora Core 14 Linux distribution and a Windows XP Embedded evaluation version. All necessary hardware drivers (including accelerated video support) for the MSM-LP are pre-installed. On the common "MSM-LP" partition, all the necessary documentation, driver installation files, BSP, Tools and included software source files can be found.

SATA Hard Disk			
Partition 1: NTFS XP Embedded	Partition 2: Linux	Partition 3: Linux	Partition 4: FAT32 MSM-LP Documentation Drivers Tools BIOS BSP

GPIO / ADC / PWM Demo Application

The evaluation kit contains a demonstration program for the onboard GPIO / ADC and PWM functions. The demo program shows the usage of the virtual serial port for communication to the onboard microcontroller which controls these functions. The Windows version of the program is written in C/C++ (Borland C++ builder). The Linux version of the program is written in C/C++ with Qt. All sources of the demo programs are included on the hard disk. Use the link on the desktop to start the program.

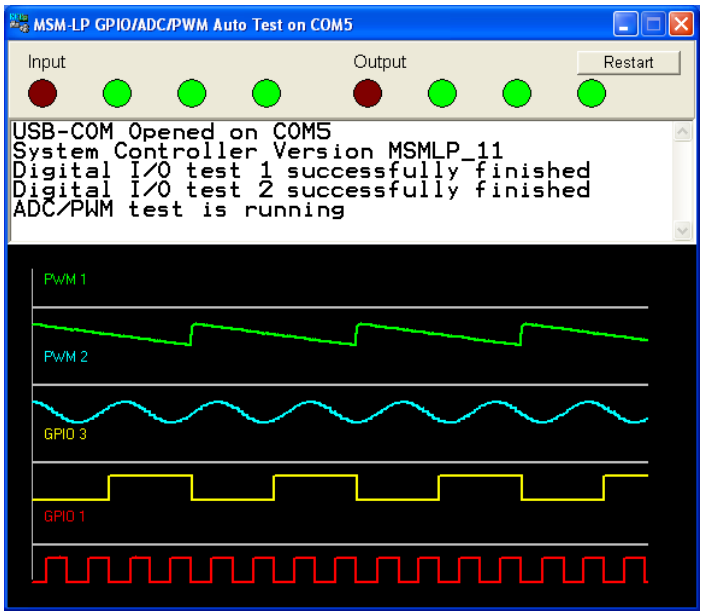


Figure 3: Demo application running under Windows XP.

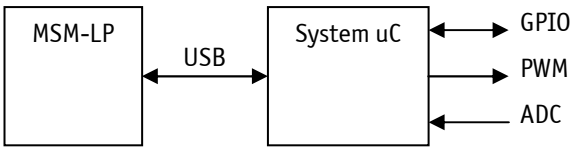


Figure 3: GPIO / ADC / PWM block diagram.

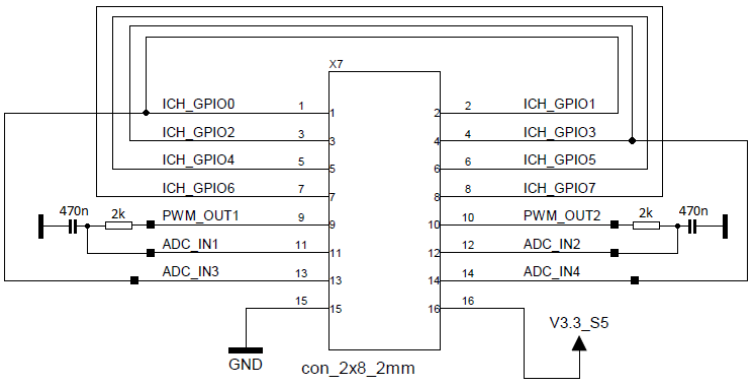


Figure 3: GPIO / ADC / PWM loopback adapter.

Appendix A: Document Revision History

Revision	Date	Edited by	Changes
100	20 Oct 2011	WAS	Initial version.
101	13 Feb 2012	WAS/MEG	Photos improved to clearly see the connectors. Page size to Kontron CI.

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