

Lavender targets automotive applications - the latest graphics display controller from Fujitsu Microelectronics Europe

([PRWEB](#)) November 23, 2000 -- November 21st 2000. The latest graphics display controller developed by Fujitsu is dedicated to graphical applications requiring small LCD displays for automotive and man machine interfaces.

Designed specifically for embedded and automotive applications with low cost, low power requirements, the MB87J2120 "Lavender" GDC is the next member of the new family of GDC's on offer from Fujitsu, and supports almost all LCD panel types. It is ideal for use in smaller display units such as dashboards, user interfaces in consumer applications and also control panels.

A highly flexible GDC, the device may be adapted at any time to the display to be used, by connection via different interfaces. A digital video input of either RGB555 or RGB888 format to enable a video picture to be seen on one of the layers is featured, and also a CPU interface for FR30. The interfaces used are highly flexible to allow formatting to the display being used, whether digital or analogue.

Lavender is optimised to work with the MB91360 series RISC controllers available from Fujitsu, and is clocked at 64MHz. The device features an external 8MB SDRAM graphic memory and is designed in 0.25 micron CMOS technology. Four layers of overlay display (out of 16 logical layers) can be viewed simultaneously, with a 2D graphic function. The device operates from a supply voltage of 3.3V (I/O) with 2.5V (internal).

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The device sustains a set of 2D drawing functions which are made up of lines, polygons, rectangles, compressed/uncompressed Bitmaps and many more. Also a video interface, units for physical and direct video memory access and a powerful video output stream formatter for a great variety of connectable displays - connected via the analogue RGB output.

The chip is optimised for low power applications, and each submodule has its own separate power saving facility so that those not in use for certain applications do not drain current, which can be critical in certain instances such as, for example in an automotive environment. Another important function of the GDC is that it is able compress graphics data to ensure that memory space used is minimal. This is all carried out in hardware.

The graphical display controller is housed in a BGA256 pin package, taking up less space than a QFP, and is able to withstand temperatures in the range -40°C to +85°C.

Lavender was designed in the European Microcontroller Design Centre, based in Frankfurt, Germany. The Microcontroller Design Centre was established in July 1997 to support Fujitsu's European customers and underlines Fujitsu's commitment to Europe. The Centre undertakes both front-end logic design and back-end physical design.



A starterkit for the MB87J2120 device will be available from the end of November. Further devices in this family are planned for the future.

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This product information is also available on the WWW at:

<http://www.fujitsu-fme.com/news/press/start.php3>

A low resolution picture relevant to this press release can be found by following the link: <ftp://www.jdk.co.uk/Fujitsu/Press/LRPR702.jpg>

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Further information on Fujitsu Microelectronics Europe's products is available on our new WWW address at: <http://www.fujitsu-fme.com>



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