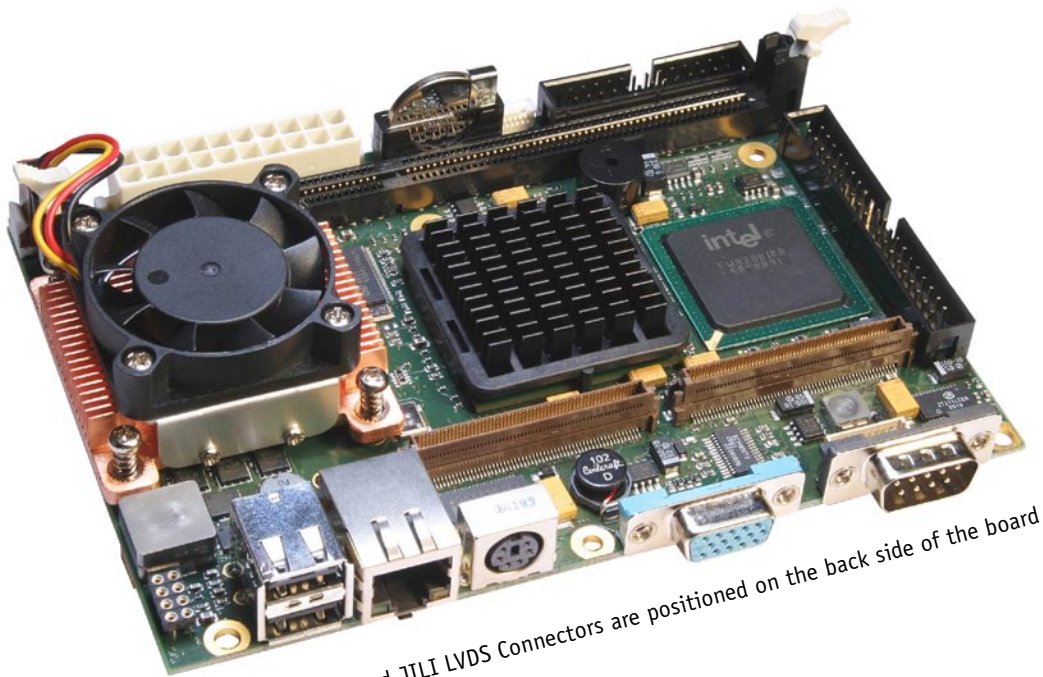


## » JReX-PM «



Compact Flash™ and JILI LVDS Connectors are positioned on the back side of the board

powered by  
**Intel® Pentium® M**

3.5" embedded line



### 3,5" SBC with Intel® Pentium® M up to 1.8 GHz

- » Intel® 852GM/855GME chipset
- » Budget version with 600MHz available
- » USB2.0 and Fast Ethernet
- » 2x JFlex™ extension Port
- » Excellent price / performance ratio
- » Shortest time to market

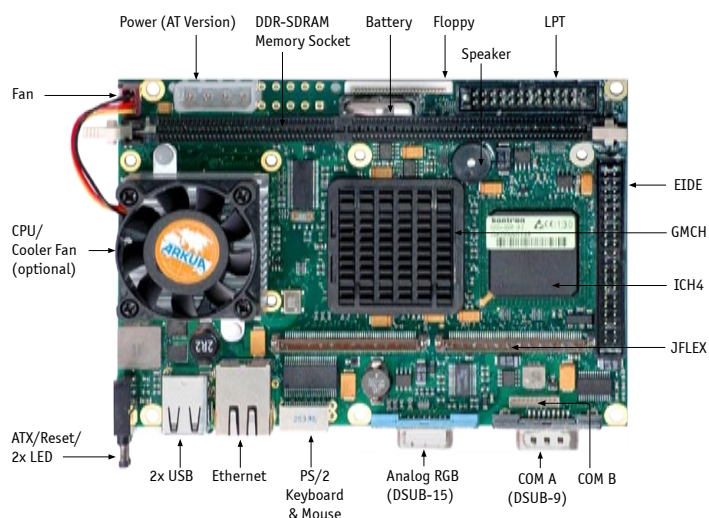
# JREx-PM

## 3,5" SBC with Intel® Pentium® M up to 1.8 GHz

Each JREx is a member of the Kontron 3.5" board family. JREx boards offer a minimum feature set of 2x USB 2.0, FAST LAN, Keyboard/Mouse-socket, Compact-Flash™, VGA and COM1.

This JREx-PM hosts an Intel® Pentium® M or Celeron® M processor. A DDR-RAM-DIMM socket for up to 1 GByte allows the use of standard desktop memory and ATX power supply.

The integrated Intel® Extreme Graphics 2 controller accesses up to 32 MByte UMA. Connection of displays is simplified by using the implemented JILI-Interface (JUMPtec® Intelligent LVDS Interface). JILI automatically recognizes which display is connected and independently sets all video parameters. Two JFlex™ Extension ports offer various expansion possibilities like additional LAN, CAN, GPIO, MiniPCI etc. The JREx-PM is plug-and-work enabled to further reduce timeto-market.



### Technical Information

|                         |                                                                                                                                                                                                                                                                                |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Processor</b>        | Intel® processor from 600 MHz up to 1.8 GHz                                                                                                                                                                                                                                    |
| <b>Chipset</b>          | Intel® 852GM/855 GME, ICH4                                                                                                                                                                                                                                                     |
| <b>Chipset features</b> | 400 MHz FSB, up to 1 GByte DDR 266/200 integrated USB 2.0, integrated CRT/LCD                                                                                                                                                                                                  |
| <b>Memory</b>           | DDR-SDRAM Socket up to 1GByte                                                                                                                                                                                                                                                  |
| <b>Graphic</b>          | Intel® Extreme Graphics 2, up to 32 MByte UMA VRAM, DVO, LVDS, CRT, Image Rotation, Dual Independent Display                                                                                                                                                                   |
| <b>I/O Features</b>     | 1 x EIDE Harddisk Interfac, UDMA-100<br>1 x Compact Flash Socket Type 1<br>1 x CRT (Analog RGB, DSUB-15)<br>2 x JFlex™ Extension<br>1 x Floppy Disk Interface<br>1 x LPT (Parallel Port)<br>1 x RS 232 (DSUB-9), 1 x TTL, (pin header)<br>PS/2 Mouse & Keyboard<br>2 x USB 2.0 |
| <b>Ethernet</b>         | 10/100 BaseT Ethernet                                                                                                                                                                                                                                                          |
| <b>Form Factor</b>      | 102 x 147 mm, 3.5" Single Board Computer                                                                                                                                                                                                                                       |
| <b>Common Features</b>  | LAN/USB Boot, DarkBoot, Watchdog, HW Monitor, Real Time Clock, Reset/ATX Feature button                                                                                                                                                                                        |
| <b>Power Supply</b>     | 5V power supply                                                                                                                                                                                                                                                                |
| <b>Temperature (*)</b>  | Operation: 0° to 60° C (w. appropriate airflow)<br>Storage: -10° to 85° C                                                                                                                                                                                                      |
| <b>More Features</b>    | Second LAN via JFLEX™-LAN optional.<br>Plug'n Play compatible to any other JREx and therefore exchangeable                                                                                                                                                                     |

(\*) Ask about extended temperature ranges

### Ordering Information

| Article             | Part.-No.       | Description                                                                                                                   |
|---------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>JREx-PM</b>      | 02004-0005-06-4 | Intel® Celeron® M (Banias) ULV CPU with 600 MHz, 512KB L2 cache, 852GME chipset, fanless, 5V                                  |
| <b>JREx-PM</b>      | 02004-0005-10-2 | Intel® ULV Celeron® M 373 with 1.0 GHz (Dothan), 512KB L2 cache, 855GME chipset, 5V                                           |
| <b>JREx-PM</b>      | 02004-0005-18-2 | Intel® Pentium® M processor 745 with 1.8GHz, 2MB L2 cache, 855GME chipset, fan, ATX                                           |
| <b>KAB-SBC-SET1</b> | 96002-0000-00-1 | Cable set for any SBC: PS/2 keyboard, IDE, one serial port, PS/2 mouse, 10/100 LAN and USB                                    |
| <b>JFLEX™-LAN</b>   | 02081-0002-00-1 | Second LAN extension board for 3.5" JREx-PM with 10/100 Mbit Ethernet LAN (DAVICOM 9102A Ethernet Controller) and 2 x USB 2.0 |

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