# Overo® EVM pack

**Product datasheet**

## KIT0033  
USD422.00

**OVERO® EVM PACK**

A complete Gumstix Overo development kit providing the combination of ARM Cortex-A8, DSP processing, 3D graphics acceleration, Bluetooth, 802.11(b/g) wireless communications, 10/100baseT Ethernet, high speed USB Host & OTG, 8GB of storage and a 4.3” Capacitive touch screen LCD display.

### INCLUDES:
- Overo FireSTORM-Y COM
- Arbor 43C expansion board
- Newhaven 4.3” capacitive touch LCD display
- USB mini-B cable
- USB OTG cable
- 6' ethernet cable
- 8GB microSD card
- 5V power adapter

### TYPICAL APPLICATIONS INCLUDE:
Ideal EVM kit for first-time OMAP users and for the development of any OMAP-based prototype or product.

**NOTE:** Product substitutions cannot be made to a Gumstix pack. Feel free to assemble your own gum pack by selecting desired products individually through our store.

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### Product Features

<table>
<thead>
<tr>
<th>Input/output</th>
<th>40-pin header</th>
<th>Not populated</th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td>Access Point Mode</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>LCD Manufacturer</td>
<td>Newhaven Displays</td>
</tr>
<tr>
<td>Communications</td>
<td>Bluetooth</td>
<td>Included</td>
</tr>
<tr>
<td></td>
<td>Ethernet</td>
<td>10/100 Base-T Ethernet</td>
</tr>
<tr>
<td></td>
<td>USB Console Port</td>
<td>Included</td>
</tr>
<tr>
<td></td>
<td>WiFi</td>
<td>Included</td>
</tr>
<tr>
<td>Camera</td>
<td>Camera Connector</td>
<td>27-Pin (OMAP ISP)</td>
</tr>
<tr>
<td>Memory</td>
<td>Flash Memory (NAND)</td>
<td>512</td>
</tr>
<tr>
<td>Processor</td>
<td>Graphics Acceleration</td>
<td>OpenGL POWER SGX Graphics Accelerator</td>
</tr>
<tr>
<td></td>
<td>Digital Signal Processor</td>
<td>C64x Fixed Point DSP</td>
</tr>
<tr>
<td></td>
<td>Processor</td>
<td>Texas Instruments DaVinci DM3730</td>
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<tr>
<td></td>
<td>Processor Architecture</td>
<td>ARM Cortex-A8</td>
</tr>
<tr>
<td></td>
<td>Processor Base Clock</td>
<td>Up to 1 GHz (recommended @ 800MHz)</td>
</tr>
<tr>
<td></td>
<td>Temperature</td>
<td>Built with components rated 0°C &lt; T &lt; 70°C</td>
</tr>
<tr>
<td>Mechanical</td>
<td>Layout</td>
<td>For OEM design, refer to the layout version shown here.</td>
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<tr>
<td>Display</td>
<td>LCD</td>
<td>4.3” capacitive touch LCD</td>
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<tr>
<td></td>
<td>LCD Size</td>
<td>4.3 inch</td>
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<tr>
<td></td>
<td>LCD Touchscreen</td>
<td>Capacitive Touch Ready</td>
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<tr>
<td>Misc</td>
<td>Power</td>
<td>3.5V - 5V</td>
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<tr>
<td>Power</td>
<td>Power Management</td>
<td>Texas Instruments TPS65950</td>
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<tr>
<td></td>
<td>RTC Battery Holder</td>
<td>Holder for 6mm rechargeable coin cell RTC battery</td>
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<tr>
<td>Usb</td>
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<td>USB Host</td>
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<tr>
<td></td>
<td>USB OTG</td>
<td>Included</td>
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</table>
Other connector
1 × USB Mini-B to Standard-A Cable
1 × USB On-the-Go Cable (Mini-B to Mini-A)
1 × Power Jack
1 × USB Mini-AB Jack
1 × Halo Electronics Low-Profile RJ-45 Connector
1 × Hirose 45 Pin FPC Connector with Bottom Contacts
2 × 3.5mm Stereo Audio Jacks

Mating connector
2 × U.FL Connector
1 × Hirose 27-Pin Camera Connector (Overo COMs)
2 × 70-Pin AVX Connector (Male Overo COMs)
2 × 70-Pin AVX Connectors (Female Overo Expansion)
1 × Hirose 40Pos FPC/FFC Connector

What's included
1 × ethernet cable 6 ft
1 × Samsung 4.3 inch LCD touch screen
1 × Overo FireSTORM COM
1 × Lexar 8GB Class10
1 × Chestnut43
1 × 5V US Power Adapter
1 × Newhaven 4.3-inch LCD with capacitive multi-touch
1 × FireSTORM-Y
1 × Arbor 43C
1 × 5V, 3.5A Power Adapter

Key component
2 × U.FL Antenna with Collar
1 × microSD Card Slot
1 × Texas Instruments TPS65950 Power Management
1 × Wi2Wi W2CBW003C WiFi/BT Transceiver
1 × Micron 512MB DDR LPDRAM & 512MB NAND Flash Memory
1 × Texas Instruments DM3730 Applications Processor
1 × Microchip (SMSC) LAN9221 Ethernet Controller
1 × Texas Instruments TPS62111 Step-Down Converter
1 × FTDI FT232RQ USB UART Interface
1 × microSD Card Slot
1 × TI WiLink8 WL1831MOD
1 × Connector (Power Jack Medium)

Product links
- Technical Specifications
- Signals Documentation
- Geppetto@Workspace