# DuoVero Crystal Technical Specifications

## CPU

<table>
<thead>
<tr>
<th><strong>Processor</strong></th>
<th>Texas Instruments OMAP4430</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Architecture</strong></td>
<td>ARM Cortex-A9</td>
</tr>
<tr>
<td><strong>Base Clock Speed</strong></td>
<td>1GHz</td>
</tr>
<tr>
<td><strong>Max Clock Speed</strong></td>
<td>1GHz</td>
</tr>
<tr>
<td><strong>Cores</strong></td>
<td>Dual Core</td>
</tr>
</tbody>
</table>

## Memory

| **RAM** | 1 GB LPDDR (PoP) |
|**Flash** |

## Graphics

| **HD Graphics Acceleration** | PowerVR SGX540 |
| **Open GL ES** | 2.0 |
| **Clock Speed** | 200 MHz |
| **Digital Signal Processor** | C64x+ |

## Communications

| **Wireless Module** |
| **WIFI** |
| **Access Point Mode** |
| **Bluetooth** |
| **Antenna** |

## Connectivity

| **Camera** | Dual OMAP ISS |
| **Storage Expansion** | microSD Card Slot |
| **Breakout:** 2 x 70 Pin DF40 |

| **UART** | 3 |
| **McBSP** | 1 |
| **SPI** | 2 |
| **I^2C** | 2 |
| **MMC** |
| **HDMI** | 24-Wire |
| **LCD** | 24-Wire |
| **Touchscreen** | Supported |
| **USB** | 1 x Host / 1 x OTG |
| **GPIO** | 3 to 6 Pins\(^1\) |
| **PWM** | 2 |
| **ADC** | 5 x 10-Bit |
| **Audio** | Stereo Out / Stereo Line In |
| **GPMC** | 1\(^2\) |

## Power

| **Power Management** | Texas Instruments TWL6030 |
| **Power Input** | 3.3 - 4.2 V DC |

## Physical Specifications

| **Dimensions** | 58mm L x 17mm W x 4.2mm H |
| **Weight** | 5.6 g |
| **Operating Temperature** | 0°C – 85°C |
| **RoHS Compliant** | Yes |

1. Depending on expansion board and based on default muxings. Available GPIOs can be modified via kernel configuration.
2. GPMC availability depends on expansion board features.