DisplayPort™ 1.2 to VGA Converter with OCM

While VGA is losing its popularity in notebooks, there continues to be a need for VGA connections with its huge installed base of monitors, projectors, and TVs. The ANX6212, designed for motherboards, addresses this gap through the high performance DisplayPort to VGA converter of its kind. With its on-chip MCU and memory, the ANX6212 does not require any external configuration or setup. The ANX6212 automatically directs the DisplayPort output from the PC or mobile phone to VGA, effectively working with all types of legacy monitors, projectors, and TVs.

Features

- **VGA output**
  - Supports resolutions up to WQXGA (2560x1600 @60Hz, 24bpp)
  - VGA output conforms to VESA® VSIS v1r2 clock jitter specification
  - VGA output pixel rate up to 270 MHz
  - Low power standby mode with automatic monitor plug and unplug detect
  - EDID and MCCS pass-through support

- **DisplayPort input**
  - VESA compliant DisplayPort 1.2 receiver
  - VESA compliant eDP v1.3 receiver
  - Two-lane high-speed differential input with configurable speed: 5.4Gbps, 2.7Gbps, or 1.62Gbps

- **Optimized for VGA adapters**
  - Integrated MCU and EEPROM for added flexibility
  - Single 3.3V power supply
  - 5.0V power output for VGA DDC
  - Minimum BOM requirements

- **System operation**
  - Under 350mW operation at WUXGA resolutions (no regulators)
  - Field upgradable through DP AUX or I2C
  - MCU can control external components
  - -10 to +75°C operating temperature

- **Power requirements**
  - 600mW active power with all regulators active
  - Standby Power: 12mW with 1V low-dropout (LDO) regulator off

- **Package offered**: 6x6mm, 48 QFN (0.4mm pitch)
## Related Products

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<th>Part Number</th>
<th>Description</th>
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<td>ANX6210</td>
<td>One DisplayPort lane to VGA converter with OCM</td>
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<tr>
<td>ANX6211</td>
<td>Two DisplayPort lanes 1.2 to VGA converter</td>
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