DisplayPort™ 1.2 to VGA Converter with OCM

ANX9833 is a DisplayPort to VGA adapter IC designed to connect a DisplayPort 1.2/1.1 source to a VGA display. With its on-chip MCU and memory, the ANX9833 does not require any external configuration or setup. It automatically directs DisplayPort output from adapters to VGA, effectively working with all types of legacy monitors, projectors, and TVs. ANX9833 provides Gbps bandwidth over two lanes to reach WUXGA (1920x1200) resolutions.

Features

- **VGA output**
  - Resolutions up to WUXGA (1920x1200@60Hz, 24bpp)
  - VGA output meets VESA VSIS v1r2 clock jitter specification
  - VGA DAC work range up to 270 MHz
  - Low power standby mode with automatic monitor plug and unplug detection
  - Getting power from DisplayPort source
  - EDID and MCCS pass-through support
- **DisplayPort input**
  - VESA® compliant DisplayPort 1.2 receiver
  - Two-lane high-speed differential input with configurable speed: 2.7Gbps or 1.62Gbps, total bandwidth up to 5.4Gbps
  - Optimized for VGA adapters
    - Integrated MCU and EEPROM for added flexibility
    - Single 3.3V power supply or 3.3V/1.0V power supply supported
    - 5.0V power output for VGA DDC
    - Low BOM requirements
- **System operation**
  - 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:** 6x6mm, 48 QFN (0.4mm pitch)

![Diagram of ANX9833](attachment:image.png)
## Related Products

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<th>Part Number</th>
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<td>ANX6212</td>
<td>DisplayPort 1.2 to VGA converter with OCM, 2 lanes total 10.8Gbps</td>
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<tr>
<td>ANX6211</td>
<td>DisplayPort 1.2 to VGA converter without OCM, 2 lanes total 10.8Gbps</td>
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