Description
The F4482 is a 1300MHz to 2800MHz Quad Path Tx DVGA with matched 100Ω differential input and 50Ω single-ended output impedances for ease of integration into the signal path.

Using a single 3.3V power supply and only 485mA of I\text{CC}, the F4482 provides four independent transmit paths, each with 27.5dB typical maximum gain, +16.5dBm output P1dB. Each channel includes a glitch-free digital step attenuator that reduces gain by up to 31.5dB in precise 0.5dB steps.

Packaged in an 8 × 8 mm, 56-LGA package, this device is part of a complete family of VGAs targeting FDD and TDD applications within the 400MHz to 4200MHz frequency range.

Features
- Independent Quad Channels for FDD Tx Applications
- RF Range: 1300MHz to 2800MHz
  - F4481: 400MHz to 1100MHz
  - F4483: 3000MHz to 4200MHz
- 27.5dB Typical Maximum Gain at 2100MHz
- Precise SPI-Controlled Glitch-Free\textsuperscript{TM} Gain Adjustment
  - 31.5dB Gain Range with 0.5dB Step Size
- +16.5dBm Output P1dB at 2100MHz
- 3.3V supply voltage
- I\text{CC} = 485mA
- 100Ω Differential Input Impedances
- 50Ω Single-ended Output Impedances
- 1.8V and 3.3V Logic Support
- Independent Channel Standby Modes for Power Savings
- Operating Temperature (T\text{EP}) Range: -40°C to +115°C
- 8 × 8 mm, 56-LGA package

Typical Applications
- 4G and 5G Multi-mode, Multi-carrier transmitters
- LTE and UMTS/WCDMA base stations
- Active antenna systems
- Digital radio

Block Diagram

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May 11, 2020
# Ordering Information

<table>
<thead>
<tr>
<th>Orderable Part Number</th>
<th>Package</th>
<th>MSL Rating</th>
<th>Shipping Packaging</th>
<th>Temperature</th>
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<tr>
<td>F4482LKGI</td>
<td>8 × 8 × 0.65 mm 56-LGA</td>
<td>TBD</td>
<td>Tray</td>
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<td>-40° to +115°C</td>
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# Revision History

<table>
<thead>
<tr>
<th>Revision Date</th>
<th>Description of Change</th>
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<tbody>
<tr>
<td>May 11, 2020</td>
<td>Initial release.</td>
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