



## FHD-to-4K TV-Signal Scaler

### 1 Features

**V-By-One (VBO) Output**

8/16-lane VBO @ max 3Gbps per lane  
Up to 4K@60Hz supported  
Up to 6dB pre-emphasis  
Lane and polarity swap supported

**LVDS Input**

Dual-channel LVDS interface  
Up to 1080p@60Hz supported  
Built-in termination  
Channel and polarity swap supported

**Scaler**

Hi-Fidelity scaler w/ super-resolution engine

**Reference Clock**

Any freq. between 19MHz and 100MHz  
Crystal or single-ended clock input  
Built-in 5000ppm SSC generator

**Misc**

I<sup>2</sup>C for chip configuration  
Built-in VBO handshake protocol  
Built-in video test pattern

**Power**

1.2V core supply  
2.5V or 3.3V IO supply  
Deep-sleep mode power <5mW  
~300mW @4K60Hz w/ scaling

**Package**

TQFP-128 (14mm x 14mm) package  
RoHS Compliant

**Availability**

Samples by the end of 2016

### 2 Block Diagram

