Smart Converters



STDP2600

HDMI1.4 to DP Dual mode Converter

■ GENERAL DESCRIPTION

The STDP2600 is a high-speed HDMI-to-DisplayPort dual mode converter targeted for Mobile PC, TV and cable accessory applications. This device includes a HDMI1.4 compliant receiver and a VESA DP Standard Ver.1.2a compliant dual mode transmitter.

The HDMI receiver supports link rate up to 2.97 Gbps that corresponds to a pixel rate of 297 MHz. The DisplayPort transmitter supports HBR2 speed, a data rate of 5.4 Gbps per lane. The transmitter is capable of supporting HDMI or single link DVI output through a passive level translator (dongle). The maximum video resolution is up to FHD 120 Hz 3D formats or 4K2K 30Hz. This device delivers deep color video up to 16-bits per color in RGB or YCbCr color format and 8-CH audio transport from the source to audio rendering device over the DP++ or through the SPDIF output.

STDP2600 provides HDCP 1.x content protection both on the input and output port thus functions as HDCP repeater. It also supports the eDP authentication option ASSR (Alternative Scrambler Seed Reset) for embedded applications.

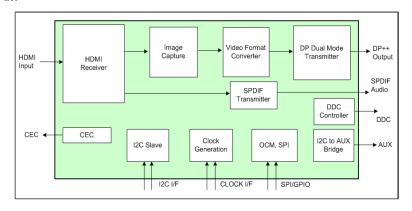
■ FEATURES

- HDMI1.4 receiver
- DisplayPort1.2a dual mode transmitter
- Protocol converter up to 2.97Gpbs/Ch
- Max video resolution 4K2K 30Hz
- Steroscopic 3D forwarding
- HDCP1.x repeater with embedded keys
- ASSR- eDP display authentication
- Spread spectrum on DisplayPort

interface for EMI reduction

- Deep color support- RGB/YCbCr up to 16bits per color
- I2C to AUX bridge for EDID/MCCS pass through
- Power consumption: Active 450mW; Standby 21mW
- 81 BGA (8mm x 8mm) package

■ BLOCK DIAGRAM



			MegaChips Technology America
MegaChips Corporation			Corporation
Corporate Headquarters	Makuhari Office	Tokyo Office	2033 Gateway Place,
Shin-Osaka Hankyu Building	1-3, Nakase, Mihama-ku,	17-6 Ichibancho, Chiyoda-ku,	Suite 400,
1-1-1 Miyahara, Yodogawa-ku	Chiba 261-8501, Japan	Tokyo 102-0082, Japan	San Jose, CA 95110, USA
Osaka 532-0003, Japan			
Tel +81-6-6399-2884	Tel +81-43-296-7414	Tel: +81-3-3512-5083	Tel: +1 (408) 570-0555
Fax +81-6-6399-2886	Fax +81-43-296-3285	Fax: +81-3-3262-3358	Fax: +1 (408) 570-0567
			E-mail: info@megachips.us
<u>www.megachips.co.jp</u>			www.megachips.us