

DATENBLATT

DPU3000-D2

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DPU3000

Tiny Universal
DisplayPort Graphics Dongle



Introduction


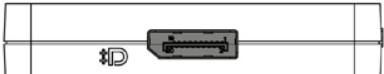
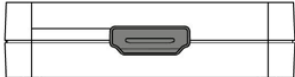
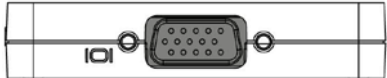
SUNIX Tiny Universal Graphics Dongle is an innovative, external multi-display adapter that allows end users to enjoy multiple monitors from Ultrabook single digital DisplayPort source. You can make photos and videos bigger and louder by connecting your Notebook PC's to a TV, external display, or projector. For example, you can watch movies on a big screen by connecting SUNIX Tiny Universal Graphics Dongle to an HDTV. With flexible VGA, HDMI, and DisplayPort video output conversions, wide range of converters no longer needed.

SUNIX Tiny Universal Graphics Dongle adopts DisplayPort innovative technology that supports 3 video connections working simultaneously (Note 1). You can expand 3 displays at the same time for gaming, graphics design or spreadsheet analysis; or you can choose to dedicate each monitor to a separate application. With plug-n-play, simplifying configuration, driver free features, SUNIX Tiny Universal Graphics Dongle is a smart solution to video conversion on Microsoft Windows based computer.

Features

- Tiny design integrates DisplayPort, HDMI, and VGA (RGB) connectivity.
- Enables 3 monitors working simultaneously with video mirror or extension mode (Note 1).
- Triple monitors output resolution up to 2560X1600@60Hz/each from single DP1.2 MST source.
- 6 combined monitors up to 5760x2160 by connecting two dongles from dual DP1.2 sources (Note 2).
- Supports digital audio stream over DisplayPort or HDMI output.
- Ideal for multi-display and TV-Wall application.
- Compatible with DisplayPort v1.2a /1.1a, HDMI v1.4a, VESA DDM, and EDID v1.4 Std.
- Supports DisplayPort link rates of 5.4Gbps (HBR2), 2.7Gbps (HBR) and 1.62Gbps (RBR).
- Supports exceptional Secured Content Protection with HDCP v1.3 for digital content.
- Drivers free under Microsoft Windows operations.
- Hot Plug & Plug-n-play feature without configuration.
- Certified by CE, FCC, and RoHS approval.

Specifications

Model	DPU3000	
Description	Tiny Universal DisplayPort Graphics Dongle	
Interface	DisplayPort™ v1.2 / 1.1a	
Video input Connectivity	Mini DisplayPort™ Female	 <p>Left: Micro-B +5VDC@1A Power Input. Right: Mini DisplayPort Input.</p>
Video output Connectivity	1-port DisplayPort™ v1.2, DP++ Female	 <p>DP++ Output</p>
	1-port HDMI Ver1.4 Female	 <p>HDMI Output</p>
	1-port VGA (RGB) (Note 3)	 <p>VGA Output</p>
Audio output Connectivity	Digital Audio output over DisplayPort or HDMI connection	
LED	Blue LED indicates DisplayPort source link status.	
Resolution Support (Triple monitors)	<p>DisplayPort1.2 MST source: (multi video/audio steams) max 2560x1600pix@60Hz each monitor.</p> <p>DisplayPort 1.1 SST or DisplayPort1.2 SST source: max 1920x1080pix@60Hz each monitor, 3840x1200pix@60Hz collage-display (ViewXpand mode).</p> <p>GPU dependent (Note 4).</p>	
Display Resolution and Maximum Number of Monitors	<p>DisplayPort 1.2 offers the higher pixel rate available, there is a limitation in how many pixels can be sent down the display pipe. The table below provides maximum monitor count vs. display resolution, based and DisplayPort 1.2 bandwidth limits. It is not required that all of the screens use the same resolution.</p>	
	Display Resolution(standard 60 frames per second refresh rate)	Maximum Number of Monitors based on DisplayPort 1.2 Bandwidth
	1680 x 1050 (WSXGA)	5
	1920 x 1080 (1080p) or 1920 x 1200	4
	2560 x 1600 (WQXGA)	2
3840 x 2160 (UltraHD, 4K) or 4096 x 2160 (4K x 2K)	1	

Power Consumption	1.45W +3.3VDC DisplayPort Bus Power
Power Connector	1-port Micro-B USB port +5VDC in (Reserved)
Case Material	ABS
Weight	40g ± 2g (1.5oz)
Dimensions	70x54x14mm (0.23x0.18x0.05ft).
Regulatory Approvals	EUR: CE, EN55022 Class B, EN55024, EN61000-3-2, EN61000-3-3 US: FCC Part 15 Class B TAIWAN: BSMI: CNS13438 AS/NZS: C-Tick: CISPR22 JAPAN: VCCI
O.S. support	Windows XP/2003/Vista/7/8/8.1, 2008/2012, (32/64-bit)
Environment	Operation temp. 0 °C ~ 40 °C (32-104°F) Operation humidity: < 85% non-condensing Storage temp. -10 °C ~ 85 °C (14~176°F)

Note:

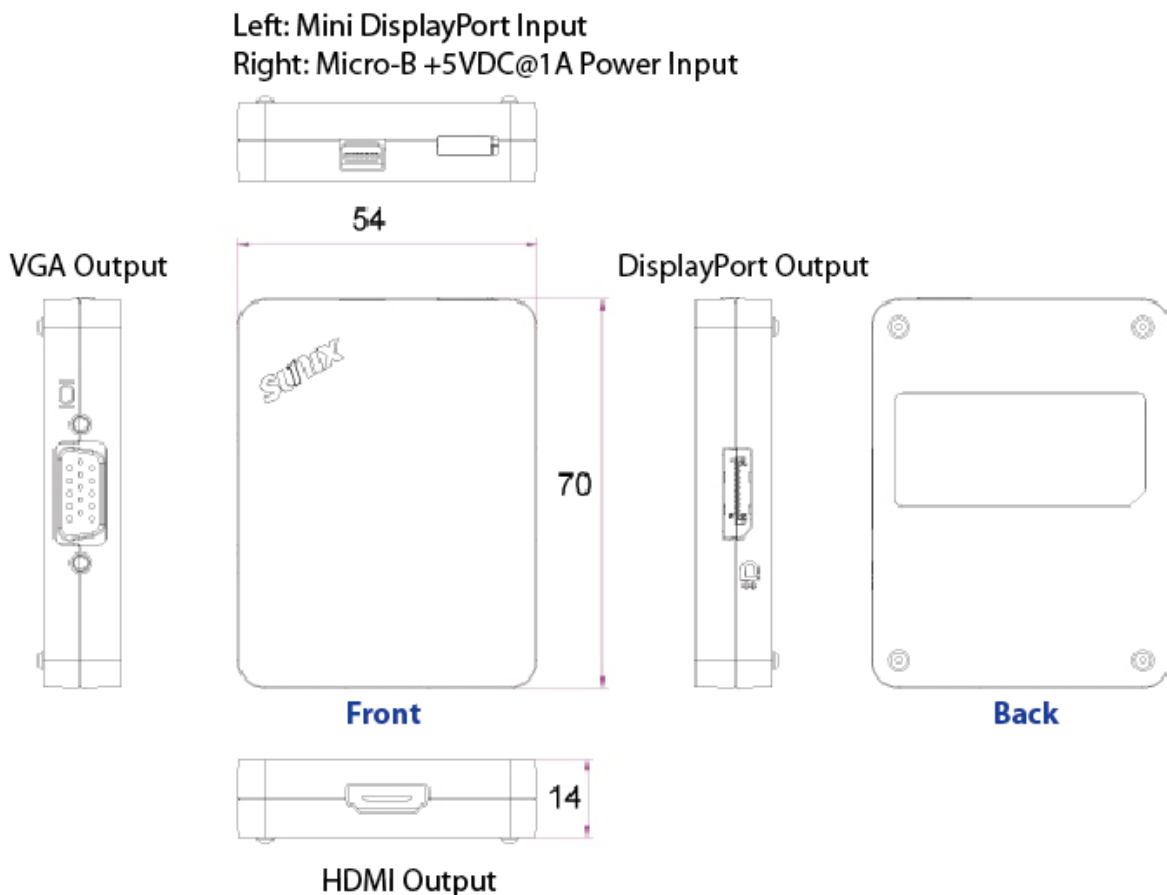
- 1: Intel Haswell platform supports maximum 3 independent displays working simultaneously, including AIO (All-in-one) or Notebook's display panel itself.
- 2: 6 combined monitors support by AMD Eyefinity multi-display technology.
- 3: SUNIX Triple-Head DisplayPort Splitter supports DP++ protocol that actively convert the DisplayPort™ signal to the VGA, DVI or HDMI connectivity over SUNIX video dongle.
- 4: GPU dependent. EDID (Extended Display Identification Data) maximum resolution capabilities may differ based on GPU capability. Output pixel and format options are compatible with VESA standards.
- 5: Tiny Universal DisplayPort Graphics Splitter does not support MAC system without NV or AMD graphics card built-in.

Disclaimer

Unit may need additional power to operate. Additional power can be provided to the unit via Micro-B USB port +5VDC connection. Micro-B USB cable is NOT provided with the unit.

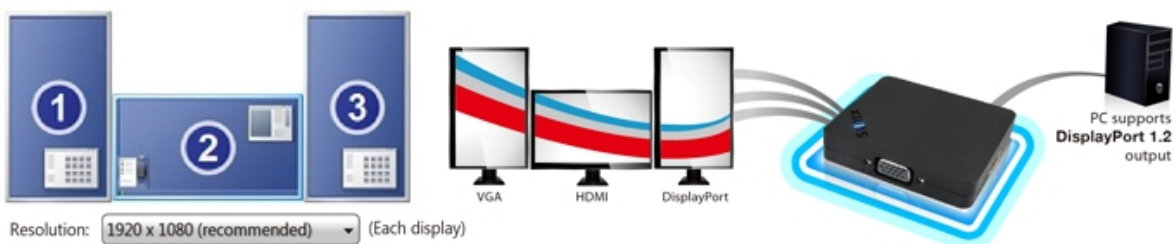
-Note*: This product requires power to operate. Generally, when connecting to one to two monitors, the power supplied from the computer should be enough to power the unit and to have a stable connection between the monitors and this unit. However; sometimes the unit may need more power in order to function properly, such as when connecting to more than two monitors, or when the monitors require too much power then what can be provided from the connection from your PC alone. In this regards, the unit has a reserve power connection. The power connection is for a Micro-B USB port +5VDC cable, such as those to power Android products. Unfortunately, we DO NOT provide this power cable with the unit.

Mechanical Drawings (Unit = mm)



Applications

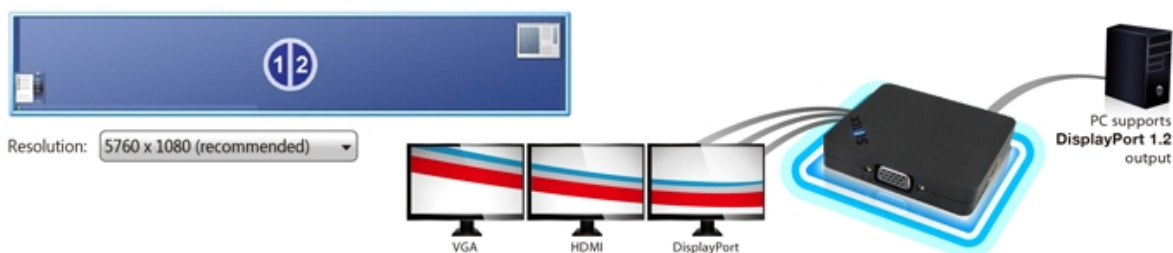
DP1.2 MST Mode



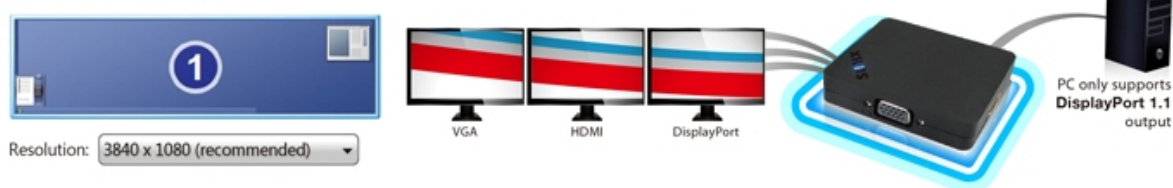
DP1.2 MST Mode with Multiple Display



DP1.2 MST Mode with Collage display



DP1.1 SST Mode



Note:

- * Display architecture based on Intel 4th Generation Intel® Core™ Processors (Haswell Platform).
- * Intel 3rd Generation Intel® Core™ Processors (IVY bridge Platform) supports DP1.1 SST mode only.

Package

- Tiny Universal Graphics Dongle
- Mini DisplayPort Male to Mini DisplayPort Male cable 100mm (4.0 ft.) x 1
- Quick Installation Guide

Optional Accessory

- DisplayPort Male to Mini DisplayPort Male cable 100mm (4.0 ft.)
- D2H1300: DisplayPort to HDMI Dongle
- D2V1700: DisplayPort to VGA Dongle
- D2I2600: DisplayPort to DVI-D Dongle
- H2V3700: HDMI to VGA Dongle