

DisplayPort (eDP) Unit Board < VM-1826 > for VG-870B/VG-871B/873/874 Signal Generator



VG-870B/873



VG-871B/874

Main Features

- VESA Standard **DisplayPort Ver.1.1a**, and **eDP** supported.
- **4K2K@60Hz / Full HD @240Hz** signal supported.
- **Control signal and power supply (4-line)** for **eDP** use.
- 10-bit output by RGB/YCbCr 4:4:4. 12-bit output by YCbCr 4:2:2.
- VESA **DisplayPort EDID Compliance Test** simulation as TE (Test Equipment).
- HDCP supported
- DDC/CI (MCCS) supported
- Audio supported (internal L-PCM and external coaxial input).

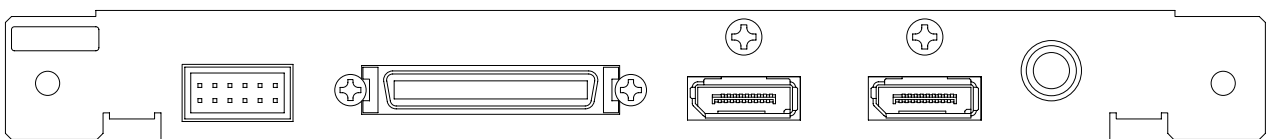
What is eDP (Embedded DisplayPort)?

- Defined in the VESA DisplayPort Standard
- Targeting to take over existing LVDS interface.
- Internal connection interface mainly used for notebook PC or tablet PC.
- Panel and backlight control.

eDP Ver1.3 New function (reference information only)

- 5.4Gbps link rate (defined in the VESA DisplayPort Ver1.2) (Not supported in VM-1826)
- Panel Self-Refresh (PSR) to save system power and to extend battery life.
(Not supported in VM-1826)

Rear View of DisplayPort Unit VM-1826 (to be installed in VG-870B/871B/873/874)



Note: External Power Input connector can accept 2 lines of power.

Specifications

Item			Description
Standard			DP v1.1a and eDP
Dot Clock			Max. 330MHz (1-port), Max. 660MHz (2-port)
Lane			1, 2, 4 (per port)
Simultaneous Output Colors	RGB、 YCbCr 4:4:4		18bit (64 colors ×RGB) 24bit(256 colors ×RGB) 30bit(1024 colors ×RGB)
	YCbCr 4:2:2		18 to 30bit (same as 4:4:4) 36bit(4096 colors ×RGB)
Audio	Internal	L-PCM	Sampling frequency: 32k / 44.1k / 48k / 88.2k/ 96k176.4k / 192k Hz Output frequency : from 100 (1/2 of the sampling frequency)Hz bit number : 16/20/24 bit
	External input	Coaxial	S/PDIF format Maximum sampling frequency 192kHz
Contents protection			HDCP
AUX CH Transaction			DPCD(DisplayPort Configuration Data) Read/Write EDID Read/Write DDC/CI(MCCS) HDCP Read/Write to the designated address
eDP	Connector for Control signal and Power.		DX10G1M-50SE (MDR 50pin)
	Control signal		8 lines
	Power supply output		4 lines *5V/ 3.3V/ External Input1/ External Input2
	Power supply control signal		RS-232C

Power Supply Output

Item		Description
Power supply output	Internal Power supply	5V/3.3V
	External power supply	The setting value of external power supply (Max. 30V)
Power limit	Internal Power supply	0.5A for each line (temporary spec)
	External power supply	2.5A for each line
Power sequence setting is available.		

Note) VM-1826 is recommended to purchase with new main unit of VG-870B/871B/873/874.

*** The specifications are subjected to change without notice.**

ASTRODESIGN,Inc.

ASTRO International

1-5-2, Minami Yukigaya, Ota-ku, Tokyo 145-0066 Japan

TEL+81-(0)3-5734-6320 FAX+81-(0)3-5734-6104

WEB SITE http://www.astrodesign.co.jp/index_en.html