

PCI Bus Board Type Programmable Video Signal Generator

VG-863Contact us: ASTRODESIGN, Inc. <http://www.astrodesign.co.jp> / ASTROSYSTEMS, Inc. <http://www.astro-systems.com>DIGITAL 1/1
20~90
MHzDIGITAL 1/2
40~180
MHz**PCI Bus Board Type Programmable Video Signal Generator**

VG-863 is a built-in system type video signal generator for use with a built-in PCI bus system. It is equipped with 2ch LVDS output. It supports RGB for each 10bit and 30bit full color bitmap output. Windows software is the standard software deployment for setting output timing and patterns. This product is also effectively used to build control systems on production lines or used as built-in signal sources for various testing.

**Features**

- Suitable for development and production of multi gradation display modules.
It supports RGB for each 10bit, and 1 billion colors are outputted simultaneously.
It has full capability to develop multi gradation display modules.
- Wide band width dot clock
Dot clock conforms from 20 to 90MHz per channel. The set timing is 20 to 90MHz for 1/1 dot clock mode, and 40 to 180MHz for 1/2 dot clock mode. As for setting accuracy, all regions in 1dot unit setting accuracy in 1/1 dot clock mode, and 2 dot setting accuracy in 1/2 dot clock mode.
- Bit switching function for LVDS device.
LVDS output data mapping can be switched by changing upper/lower bit mapping. Various mapping such as DSV1.0, OpenLDI can be supported.
- Windows supporting software included as a standard package.
Standard Windows software (SP-8028) accessories allow you to easily set timing and patterns. Additionally, an optional library (SP-8863) collection aids in creating desirable programs. Library functions/ parameters are compatible with those of previous models. The existing user program can also be used.
- Space saving
Half-size PCI bus board allows for mounting in a compact PC.

specifications

Output specifications	Dot clock frequency	1/1 clock mode : 20.00 to 90.00MHz 1/2 clock mode : 40.00 to 180.00MHz
	Output connector	MDR26Pin connector × 2
	Horizontal frequency setting accuracy	1dot level (1/1 clock mode) 2dot level (1/2 clock mode)
	Horizontal frequencies / Horizontal dot numbers	10 to 300KHz 4096 dots max.
	Vertical frequencies / Vertical scanning line numbers	15.6 to 200Hz 4096 lines max.
	Image memory	2048dots~2048dots~30bit(bitmap)
	The number of the simultaneous / chromospheres	1,073,740k color
	Scanning	Non-interlace, interlace & sink, interlace & video
General specification	Slot	PCI bus 1 slot(PCI bus spec Rev2.1 conformed)
	Supported OS	Windows 98/2000/XP
	Option	SP-8863 (Command library for VG-863)
	Power consumption	15W MAX
	Outside Dimension	106.7~174.6mm (PCI short card : excluding tangs)
	Weight	0.2Kg
	Operating temperature range	5 to 40℃
	Storage temperature range	-10 to 50℃
Operating humidity range	30 to 85% RH (non-condensing)	

[Caution when using several of the ASTRO PCI-Bus Board VG]

- The same board model (e.g.2 VG-863 boards) cannot be used in one PC.
- With Windows98, several boards cannot be used in one PC.
- With Windows2000, VG-861, VG-862 and VG-863 can be installed in one PC.