

1:16, 1PPS Distribution Unit

Introduction:

The **VCL-2486-P, 1:16 1PPS Distribution Unit / 1PPS Multiplier** with BNC and 1PPS optical outputs. 1PPS Distribution Unit accepts one 1PPS Input to provide up to 16 1PPS outputs. The VCL-2486-P, 1PPS Distribution Unit is used to multiply 1 x 1PPS to provide 16 x 1PPS outputs. The VCL-2486-P, 1PPS Distribution Unit is a compact and cost-effective solution which provides up to 16 1PPS outputs.



Features and Highlights:

- 1PPS input (BNC)
- Up to 16 1PPS Electrical and up to 4 1PPS Optical Outputs
- DC or AC Power Supply options.

Synchronization Inputs:

- 1PPS/Pulse (BNC) - Input impedance 50 ohms

Outputs - Upto 4 cards (Mix and Match):

Options:

- Pulse BNC Card - 4 BNC output per card – 16 BNC Max.
- Output impedance 50 ohms
- Pulse Optical Card - 1 optical (ST) output per card – 4 Optical Max.

1PPS BNC Output Interface Card

1PPS Output interface	Number of Outputs	Connector
1PPS	4 outputs per card	BNC
Maximum cards	Up to 4 cards per chassis	BNC
Maximum outputs	16 outputs per chassis	BNC

Optical 1PPS Interface Card

Optical 1PPS Output interface	Number of Outputs	Connector
Optical output	1 output per Card	ST
Maximum cards*	Up to 4 cards per chassis	4 x ST
Maximum outputs*	Up to 4 outputs per chassis	4 x ST

*Each Optical output can be extended to a remote location over multimode cable up to distance of 2000 metres. VCL-2728 may be used at each remote location to obtain upto 4x1PPS (electrical) BNC outputs.

Environmental (Equipment):

Operational	-10°C to +60°C (Typical: +25°C)
Cold start	0°C
Storage	-40°C to +70°C
Humidity	95% non-condensing
Cooling	Convection Cooled. No cooling fans are required.

Mechanical Specifications:

H x W x D	90 x 480 x 250 (mm)
Weight	3.0 Kg
Rack Mount:	19" rack mounting options

Power Consumption:

- < 10W at ambient (steady state 24°C)

Application Diagram:



Power Supply Options:

- AC (100V AC to 240V AC, 50/60 Hz)
- DC (24 V DC, 48 V DC, 110 V DC to 220 V DC)

Regulatory Compliance:

- RoHS, CE Marking
- Complies to IEEE and IEC standards
- Transportation ETS 300 019 Class 2.3

Standards & Compliance:

- IEC - EMC – Certified to EN 55022: 2005 / CISPR 22, EN 55024:2005, IEC 61000-4-2
- CE – 2001/95/EC, 2006/95/EC, EN60950-1, EN61000-6-2, EN61000-6-4
- FCC – FCC Part 15 B Class A: Conducted Emission test on Power Line
- FCC Part 15 B Class A: Radiated Emission >1 GHz FCC, 6 GHz, on Power Line

Ordering Information (Base Unit):

Part No.:	Description
VCL-2486-P	VCL-2486-P, 1:16 1PPS Distribution Unit 1 x 1PPS Input (BNC), 19-Inch, Rack mountable [supports up to 4 x Output Cards] Installation Kit: System Core Cables, Mounting Hardware, Documentation, User Manual

Add Power Supply:

AC	1 x 110-240V AC Power Supply Input
DC024	1 x 24V DC Power Supply Input
DC048	1 x 48V DC Power Supply Input
DC110	1 x 110V DC Power Supply Input
DC220	1 x 220V DC Power Supply Input

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