

VCL-2156-PTP-NTP

GPS PRC PTP & NTP CLOCK SERVER



PTP
Grand-Master

NTP
V2/v3/v4

GPS PRC
G.811

OCXO
G.812 holdover

1U COMPACT
Cost effective

Introduction

VCL-2156 is a PTP IEEE 1588 Grand Master and NTP Server locked on GPS/GNSS reference that provides synchronization to Telecoms and Mobile network Operator, Utility substation, Broadcast, Railway, Airport, Banking applications.

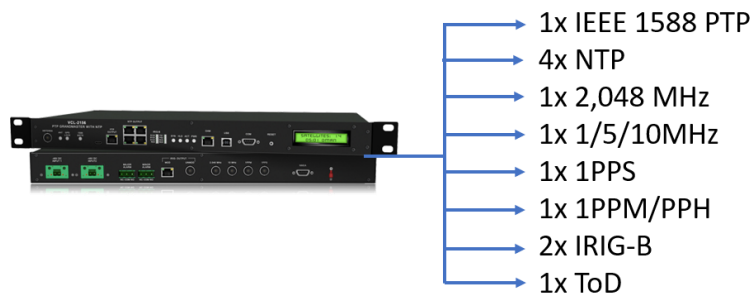
VCL-2156 provides a complete set of synchronization interfaces including 1x PTP Grandmaster port to 128x PTP Clients, 4x NTP ports and industry standard 10MHz / 1PPS / IRIG-B / ToD / 1PPM-PPH ports.

VCL-2156 delivers a G.811 PRC synchronization accuracy when locked on GPS and G.812 holdover thanks to its high stability OCXO oscillator that keeps better than 12 μ S accuracy over 24 hours.

VCL-2156 integrated and compact design makes it a cost effective and easy to operate synchronization equipment. Its fan-less design for wide operating temperature range and redundant power supply modules provide high reliability and resilience that are required by mission critical applications.

Applications

VCL-2156 provides clock synchronization to various applications : telecoms and mobile networks, electricity transport and distribution substations, banking and trading, air traffic control, ticketing, video broadcasting,



Specifications

GPS PRC and Holdover	
GPS receiver	TNC F connector 50 channel GPS receiver Tracks up to 12 GPS satellites -150/-160 dBm sensibility Accuracy +/-15nS
OCXO	0.5ppb per day accuracy 50 ppb per year accuracy
Clock accuracy	PRC G.811 when locked on GPS G.812 on holdover
NTP and PTP IEEE 1588	
PTP IEE 1588	IEEE 1588 v2 Grand Master Up to 128 PTP Clients 1-step or 2-step L2 Ethernet or L3 UDP Telecom Profile G.8265.1 / G.8275.1 Power Profile IEC.61850-9-3, C37.328
NTP	4x NTP ports NTP v2 / v3 / v4 MD5 authentication SNTP v4 Unicast, Multicast, broadcast
Other Synchronization interfaces	
2,048 MHz	BNC, 75 Ohms
1 / 5 / 10 MHz	BNC, 50 Ohms
1xPPS & 1PPM/PPH	BNC
IRIG-B	BNC unmodulated RJ45 modulated

Management	
Protocols	Telnet, SSH, HTTP/HTTPS, Syslog SNMP v2/v3
Power supply	
110-230 Vac	100 to 240 Vac, IEC connector
48 Vdc	40 to 70 Vdc, screw bloc
Power consumption	15 W
Environmental	
Size (WxDxH)	480 x 225 x 44 mm
Weight	2,3 kg
Operating temperature	-20 to +60 °C
Hygrometry	5 to 95%, non condensing
Compliance	CE, ROHS, EN55022, EN55024

Ordering information

Reference	Description
VCL-2156-PTP-NTP	GPS PRC synchronization with PTP and NTP protocols, no power supply
VCL-2156-NTP	GPS PRC synchronization with NTP protocol, no power supply
VCL-2156-AC220	110-230 Vac power supply module
VCL-2156-DC048	48 Vdc power supply module
VCL-GPS-ANT	GPS antenna, 30dB, N-Type (F) connector
VCL-GPS-COAX-TNC-N	N-Type (M) to TNC (M) GPS cable adapter, 3 meters
VCL-GPS-COAX-30M	N-Type (M) to N-Type (F) GPS cable, 30 meters
VCL-GPS-COAX-60M	N-Type (M) to N-Type (F) GPS cable, 60 meters
VCL-GPS-PROTEC	GPS lightning protection kit, 50 Ohms, N-Type (M) to N-Type (F)



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