

Feature	VCL-3048 (DIN)	VCL-2156 (1U)	VCL-2145-D (2U)	VCL-2156-EXT (2U)
Primary Application	Compact GPS NTP Server	Enterprise NTP / PTP Server	Primary Reference	Semi-Modular Enterprise Time Server
ITU-T G.811 PRC	✗	✓	✓	✓
GNSS Receiver	GPS / GNSS	GPS / GNSS / NavIC / Galileo / BeiDou	Dual GPS/GNSS (1+1)	GPS / GNSS / NavIC / Galileo / BeiDou
External Inputs	✗	NTP, 1PPS	10MHz, 2.048MHz, 2.048Mbit/s (E1)	NTP, 1PPS
Dual GNSS Receiver (1+1)	✗	✗	✓	✓
1PPS Accuracy (GPS / GNSS)	±30 ns	±15 ns	±15 ns	±15 ns
NTP Server (V4)	✓	✓	✓	✓
IEEE 1588v2 PTP Grandmaster	✗	Optional / Model Dependent	1	✗
NTP Performance	Up to 3,000 requests/sec	Up to 7,500 requests/sec	Up to 9,000 requests/sec	Up to 7,500 requests/sec
Supported NTP Clients	3000 NTP, Small / Medium Networks	40,000 NTP / 250,000 SNTP	80,000 NTP / 500,000 SNTP	40,000 NTP / 250,000 SNTP
NTP Ethernet Ports	1	4+Management	4+Management	4+Management
IPv4 / IPv6	✓	✓	✓	✓
IRIG-B Unmodulated	3 (RS232, RS485, BNC)	1 (BNC)	6 BNC Outputs	1+Expandable upto 16 ports
IRIG-B Modulated	✗	1 (RJ45)	✗	1+Expandable upto 16 ports
1 PPS	1	2	1	2+Expandable upto 16 ports
10 MHz	✗	1	1	1
1 / 5 / 10 MHz Selectable	✗	10MHz fixed	✓	10MHz fixed
2.048 MHz	✗	1	8 Outputs	1
1PPM / PPH	✗	1	✗	1
E1 / T1 Outputs	✗	1 E1	8 × E1 / T1 (programable)	1 E1
ToD (NMEA 0183)	✗	1	1	1
Alarm Relay	✓	✓	✓	✓
SNMP v2 / v3	✓	✓	✓	✓
Syslog, Radius, NTP Key	✓	✓	✓	✓
Web GUI / GUI	✓	✓	✓	✓
SSH / Security	Advanced	Advanced	Advanced	Advanced
Holdover Stability	TCXO: ±2.5ppm	OCXO: ±3 ppb, RbXO: ±0.3 ppb	OCXO: ±3 ppb, RbXO: ±0.3 ppb	OCXO: ±3 ppb, RbXO: ±0.3 ppb
Internal Oscillator	TCXO	OCXO / RbXO (Optional)	OCXO / RbXO (Optional)	OCXO / RbXO (Optional)
Redundant Power Supply	No	1+1 (AC / DC)	1+1 (AC / DC)	1+1 (AC / DC)
Expansion Capability	No	Fixed Interfaces	Fixed Interfaces	Four User-Selectable Output Modules (IRIG-B (RS232, RS485 DCLS, AM, OPT), 1PPS (BNC, OPT))
Typical Applications	Industrial LAN, CCTV, Small SCADA	Utilities, SCADA, Railways, Airports & Defence	Substations, Protection Relays, SCADA	Utilities, SCADA, Railways, Airports & Defence

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Technical specifications are subject to changes without notice.

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