

SecurePNT 6200 with SecureTime altGNSS/eGNSS Services

Resilient PNT Clock for Secure Critical Infrastructure

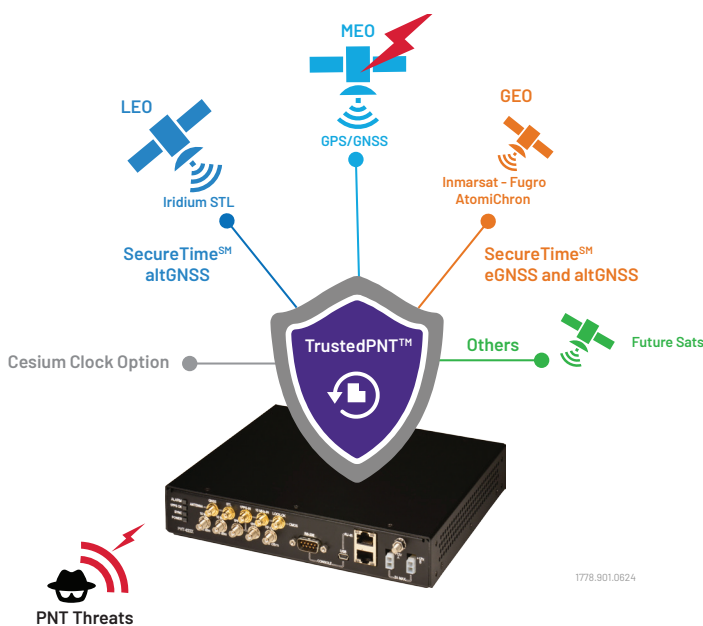
Defense | 5G Communications | Transportation | Data Center |
Energy | Financial | Critical Infrastructure

Solving Industry Challenges

Secure and resilient Position, Navigation and Timing (PNT) services are vital to support at-risk critical infrastructure from rising PNT disruptions such as intricate jamming/spoofing Cyber attacks on GPS/GNSS antennas and malicious hacking attacks on network timing targeting NTP/PTP protocols and GPS/GNSS receivers.

Secure and Resilient PNT Clock Solution

The upgraded SecurePNT™ 6200 series is a next-gen resilient timing clock solution powered by innovative TrustedPNT™ technology and an intelligent zero-trust multisource platform.



SecurePNT™ 6200 powered with SecureTime Services

Features

- L1/2/3/5/6+PPP GNSS receiver, supporting GEO Sat Signals, and optional LEO STL receiver
- Holdover options: DOCXO or Rb oscillator (internal)
- Inputs: 10 MHz and 1 PPS for external Cesium clock holdover
- Outputs: 10 MHz/1 PPS
- System: meets PRTC-A ITU-T G.8272 spec, NEBS certified, half 19" width, rack-mountable

Benefits

- Secure and resilient PNT clock solution with new SecureTimeSM Services, integrating these alternative and enhanced sources on top of GPS/GNSS:
 - altGNSSSM LEO - alternative GNSS-independent source with encryption, <65 ns RMS accuracy traceable to UTC(NIST), powered by Iridium STL
 - eGNSSSM GEO - enhanced GNSS source, authenticated spoofing detection/mitigation, <5 ns RMS ultra-high accuracy, traceable to UTC, powered by Fugro AtomiChron on Inmarsat
 - altGNSSSM GEO - alternative GNSS-independent source, authenticated spoofing detection/mitigation, <±100 ns peak-to-peak, traceable to NIST, powered by Fugro on Inmarsat and other satellite constellations
- Augmented PNT clock for GPS/GNSS-denied or indoor environments
- Retrofit legacy GPS/GNSS with the μPN Transcoder™ and rapidly transform legacy clocks into resilient PNT clocks at scale

Typical Specifications

SecurePNTTM 6200 Series with SecureTime altGNSS/eGNSS Services		
1 PPS stability with GNSS and multisource SecureTime Services	<5 ns ¹ RMS GPS/GNSS locked	
	<65 ns ¹ RMS altGNSS LEO locked to Iridium's STL service	
	<5ns ¹ RMS eGNSS GEO locked to Fugro AtomiChron service on Inmarsat	
	<100 ns ¹ p2p altGNSS GEO locked to Fugro AtomiChron service on Inmarsat	
Holdover performance (over 24 hours @ 25°C, no airflow, no motion)		
Model	6250/6250S²	6260/6260S²
	<2 μs ³ with DOCXO	<250 ns ³ with Rb
μPNTranscoder (patented multisource-to-GPS transcoder)	GPS L1 C/A RF output signal to retrofit legacy GPS/GNSS clock equipment	
NMEA messages	USB and RS-232 connectors, GGA, RMC, ZDA, GSV, PASHR, GSA	
GPS/GNSS receiver		
Multifrequency	L1, L2, L3, L5	
Constellations	GPS/Galileo (SBAS)/GLONASS/BeiDou/QZSS/NAVIC	
Tracking Performance (C/N0 Threshold)		
Acquisition	33 dB-Hz	
Tracking	20 dB-Hz	
TTF		
Cold Start	<45 sec	
Warm Start	<20 sec	
Reacquisition	1 sec	
GEO Sat Signals	Integrated GEO receiver	
STL LEO receiver	A VIAVI leading edge design	
Sensitivity	-100 dBm tracking	
Intelligent zero-trust multisource switchover	GNSS (4 frequencies), STL LEO, GEO Sat, 10 MHz, 1 PPS	
Inputs		
External reference inputs for Cesium holdover clock	10 MHz Sine Wave (0 dBm to +15 dBm), 1 PPS CMOS options	
Outputs		
10 MHz	2x +13 dBm 10 MHz sine wave, low phase noise option	
Accuracy	<±0.2E-010 after 20 min with GNSS	
1 PPS	2 x 1 PPS Outputs via SMA (Coax)(>1K Load), 3.3 V	
	1 x 1 PPS Input, SMA, >1 K Load	
Frequency	10 MHz, DOCXO or Rb oscillator option	
Stability over temperature (holdover mode)	-10° to +75°C: ±0.2E-09 DOCXO option, ±5E-011 Rb option	
Spurs	<-110 dBc/Hz	

Typical Specifications continued

Power and Consumption	
Supply Voltage (Vdd)	
Power Consumption	Single or Dual redundant +12 V DC inputs
	<10 W (DOCXO variant)
Environmental	
Operating Temperature Range	-25°C to +75°C, forced air environment
Storage Temperature Range	-45°C to +85°C
Mechanical	
Size	Half 19" width, 1.64" x 8.53" x 8" (H x W x D)
Weight	1.5 lbs
Connections	
RF antenna (one for STL, one for GNSS)	SMA (antenna power enable controls on both ports)
10 MHz in/out, 1 PPS in/out, TTL status	SMA
In Situ firmware updates	Fully field upgradeable through USB or RS-232 serial ports

¹Traceable to UTC/NIST

²With LEO STL receiver

³After 7 days with GNSS reference

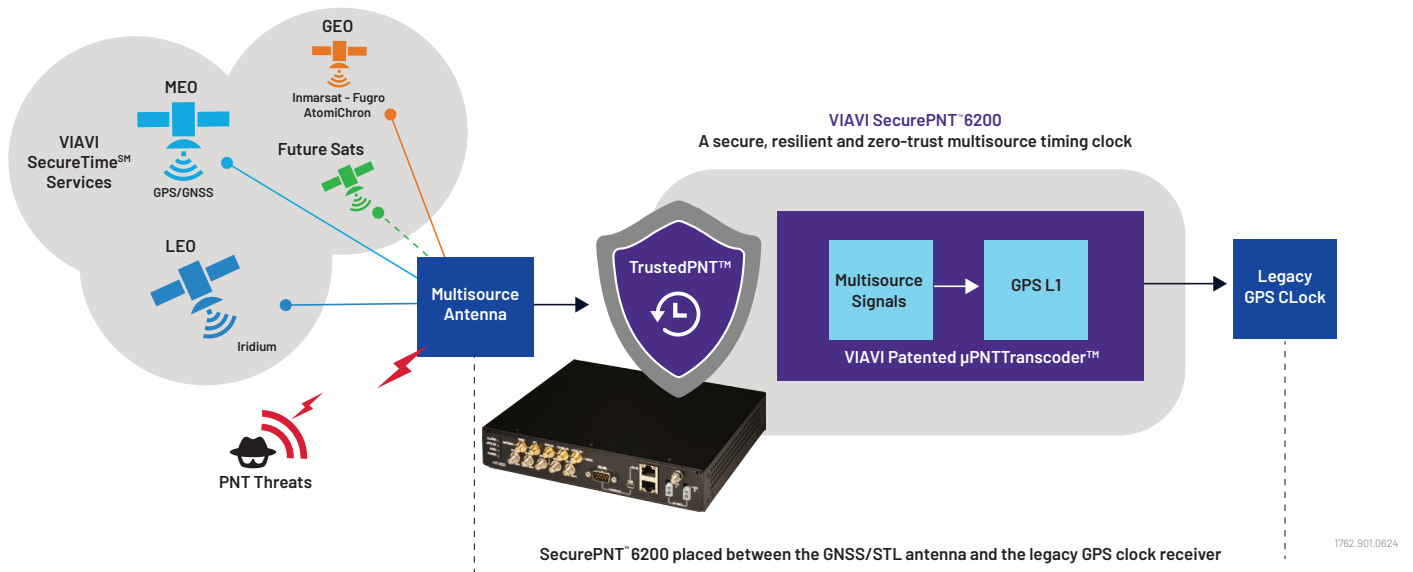
PNT Compliance List

Compliance Mark	
CB: Scheme International Safety	ETSI EN 301 489-19
CE: EU Safety and EMC	EN 61000-4-2 ESD
FCC: USA EMC	EN 61000-4-3 radiated immunity
RCM: Australia/New Zealand EMC	EN 61000-4-4 EFT
Emissions	EN 61000-4-5 surge
FCC Part 15 (Class A)	EN 61000-4-6 low frequency common immunity
ICES 003 (Class A)	EN 61000-3-2 harmonic emission
ETSI EN 300 386	EN 61000-3-3 voltage fluctuations and flicker emissions
CISPR 32	EN 61000-4-11 voltage dips and interruptions
EN 55032	Safety
ETSI EN 303 413	IEC 62368-1
ETSI EN 301 489-1	EN 62368-1
ETSI EN 301 489-19	Directives
Other	Safety Directive 2014/35/EU
NEBS GR 1089-CORE	EMC Directive 2014/30/EU
Immunity	Radio Equipment Directive (RED) 2014/53/EU
ETSI EN 300 386	RoHS Directive 2011/65/EU and the (EU)
ETSI EN 301 489-1	2015/863 amendment

Typical Use Case

Quickly retrofit legacy GPS/GNSS clocks, at-risk of rising jamming and spoofing cyberattacks, with a secure, resilient, and zero-trust multisource PNT clock at a fraction of the cost of replacing legacy clocks.

Request your **SecurePNT 6200** demo unit today by [clicking here](#) to start your successful POC and to safeguard your network against rising GPS Cyber threats.



Solution to retrofit GPS/GNSS clocks

Product Ordering Information

Product Number	Description
22172902	PNT-6250S Transcoder DOCXO GNSS-T STL ROHS
22172904	PNT-6260S Transcoder Rb SA55 GNSS-T STL ROHS
22186123	PNT-6250L Transcoder DOCXO GNSS-T GEOL ROHS
22186124	PNT-6260L Transcoder Rb SA55 GNSS-T GEOL ROHS

SecureTimeSM Service Options

SecureTime altGNSS GEO-L

SecureTime altGNSS LEO-S

SecureTime Services Product Matrix

SecureTime Service	PNT-6250S / 6260S	PNT-6250L / 6260L
SecureTime altGNSS GEO-L Service	X	✓
SecureTime altGNSS LEO-S	✓	X
SecureTime eGNSS GEO Service	✓	✓



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