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Data Sheet

August 12, 2026

LARUS

LARUS STS5800 STARSYNC GPS STRATUM 1 PRIMARY REFERENCE SOURCE w / GPS Antenna

LARUS STS5800 StarSync / StarClock GPS Stratum 1 Timing System The LARUS STS5800 (StarSync / StarClock) isaGPS-disciplined Stratum 1 primary reference / BITS timing system. GPS UTC disciplines an ovenized reference oscillator with digital frequency synthesis. Stratum 3E or Stratum 2 holdover options. Extended-temperature design for smaller and remote sites without redundancy. This listing includes GPS antenna. The LARUS STS5800 (StarSync / StarClock) isaGPS-disciplined Stratum 1 primary reference / BITS timing system. GPS UTC disciplines an ovenized reference oscillator with digital frequency synthesis. Stratum 3E or Stratum 2 holdover options. Extended-temperature design for smaller and remote sites without redundancy. This listing includes GPS antenna.



MODEL

LARUS STS5800

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

STS5800

LISTING

<https://aumictechlabs.com/products/sts5800-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The LARUS STS5800 StarSync is a GPS Stratum 1 Primary Reference Source delivering precise time synchronization for critical infrastructure and network timing applications. This Building Integrated Timing System (BITS) clock maintains Stratum 2 or Stratum 3E holdover performance during GPS signal loss, combining an ultra-stable ovenized reference oscillator with Kalman

filtering and patented digital frequency synthesis. Output MTIE performance exceeds GR-2380 mask requirements by ten to twenty times typical GPS solutions. Designed for small installations and remote sites including cell sites and PCS networks, the system installs in under ten minutes with full connectorization. Technical Specifications Timing Source: GPS Stratum 1 Primary Reference Source Holdover Performance: Stratum 2 or Stratum 3E Holdover Drift: $<5 \times 10^{-9}$ per day over any $\pm 10^{\circ}\text{C}$ temperature range Reference Oscillator: Ultra-stable ovenized design with Kalman filtering and digital frequency synthesis Output MTIE: Meets GR-2380 mask performance; 10–20× improvement over typical GPS solutions System Supply Voltage: –48 VDC nominal Power Dissipation: Less than 30 watts Power Inputs: –48 VDC A & B inputs Key Features Ten DS1 outputs with extended or standard SuperFrame framing Ten composite clock (CC) outputs Four DS1 input ports: two for GPS-unavailable tracking, two for performance monitoring Four RS422 outputs for data distribution One office alarm interface Local and remote RS232D management ports Alarm data log captures one week of events 19-inch or 23-inch rack mount; 17 × 10 × 3.5 inches (W × D × H) Passive GPS antenna with up to 500 feet of coaxial cable Operating temperature: –40° to +75°C (extended) or 0° to +55°C (standard) Typical Applications Cell site and PCS network timing Small installations and remote site deployments Critical infrastructure requiring continuous, accurate synchronization Compatibility & Integration Meets Bellcore NEBS TR-EOP-000063, GR-1244, and GR-2830 standards 25-pair telco-style and 25-pin subminiature D connectors for standard integration DS1 framing supports both ESF and SF configurations

Features & description

From manufacturer datasheet

Features

• Primary reference: GPS Stratum 1 • Holdover options: Stratum 3E or Stratum 2 (configuration) • Oscillator: ovenized reference measured against GPS UTC • Synthesis: digital frequency synthesis of references • DS-1 inputs: 4 ports • DS-1 outputs: 10 • Composite clock outputs: 10 • RS-422 outputs: 4 • Office alarm interface: yes • References: synthesized T1 and composite clock • Temperature: extended-temperature timing system • Redundancy: designed for sites without redundancy • Antenna: GPS antenna included on this listing configuration • Product names: StarSync / StarClock STS5800

Applications

• SONET network-element synchronization • Intelligent multiplexers requiring timing • Office timing distribution (T1 / composite clock) • Remote / smaller installations needing GPS Stratum 1 without redundant shelves

STS5800 Characteristics / Specifications

PARAMETER	VALUE
Model	STS5800
Manufacturer	LARUS
Instrument Type	GPS Stratum 1 Primary Reference / BITS Clock
Alias	STS5800; StarSync STS5800; StarClock STS5800
Primary stratum	Stratum 1 GPS
Holdover	Stratum 2 or Stratum 3E (option)
Composite clock outputs	10
Alarm interface	office alarm
Oscillator	ovenized reference measured against GPS UTC
Synthesis	digital frequency synthesis of references
Form	extended-temperature, non-redundant site class Notes Specs from LARUS STS5800 StarClock product announcements and reseller descriptions. Confirm exact holdover option (2 vs 3E), firmware, and I/O fit on the unit.
Primary reference	GPS Stratum 1
Holdover options	Stratum 3E or Stratum 2 (configuration)
DS-1 inputs	4 ports
DS-1 outputs	10
RS-422 outputs	4
Office alarm interface	yes
References	synthesized T1 and composite clock
Temperature	extended-temperature timing system
Redundancy	designed for sites without redundancy
Antenna	GPS antenna included on this listing configuration
Product names	StarSync / StarClock STS5800

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

Specifications

PARAMETER	VALUE
Model	STS5800
Manufacturer	LARUS
Instrument Type	GPS Stratum 1 Primary Reference / BITS Clock
Alias	STS5800; StarSync STS5800; StarClock STS5800

Primary stratum: Stratum 1 GPS
Holdover: Stratum 2 or Stratum 3E (option)
DS-1 inputs: 4
DS-1 outputs: 10
Composite clock outputs: 10
RS-422 outputs: 4

Specifications

PARAMETER	VALUE
Alarm interface	office alarm
Oscillator	ovenized + GPS UTC discipline
Synthesis	digital frequency synthesis
Form	extended-temperature, non-redundant site class

Notes

Specs from LARUS STS5800 StarClock product announcements and reseller descriptions. Confirm exact holdover option (2 vs 3E), firmware, and I/O fit on the unit.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.