

Venus Lite

Time-Digital Converter

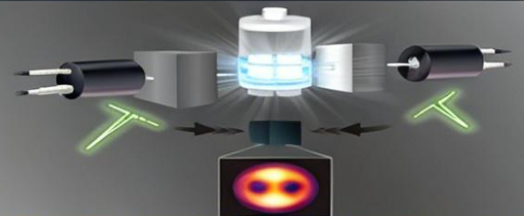
Time Tagger

- High time measurement resolution: 0.975 ps
- Excellent timing performance: ~ 3 ps RMS jitter
- Low time measurement dead time: ~ 2 ns
- 16/8/4 channels per device
- Online coincidence measurement/frequency analysis/TOT/TCSPC
- Support g^2 curve/IEEE 1139 clock analysis
- Maximum Count Rate: 250 M cps/ch
- Maximum Clock Analysis Frequency: 500 MHz
- USB 3.0/1 GbE/10 GbE/40 Gbps QSFP communication interface
- Fully open and customizable
C/C++/Python/MATLAB/LabVIEW API/SDK
- Data acquisition/analysis host software
(Windows/Linux)
- Scalable up to 256 devices (4096 Ch) for synchronized measurement



Quantum Communication and Calculation

Coincidence Measurement



Fluorescence Measurement Frequency Analysis

Single Photon Detection





Venus lite series.

16/8 Channel, 0.976 ps

Streaming Time-Digital Converter

Venus Lite Mechanical drawing with dimensions

UG-01-3-052-5, Aug. 2026

Chronos Technology specializes in the development of ultra-high precision measurement equipment, offering nanosecond-level synchronization solutions tailored for the quantum, medical, and industrial sectors. For more product information, please visit our official website- www.chronosci.com



Copyright Notice

Copyright © 2026 by Chronos Technology Inc. All rights reserved.

This document contains information that is proprietary and confidential to Chronos Technology Inc. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of the publisher.

1. 产品外观尺寸

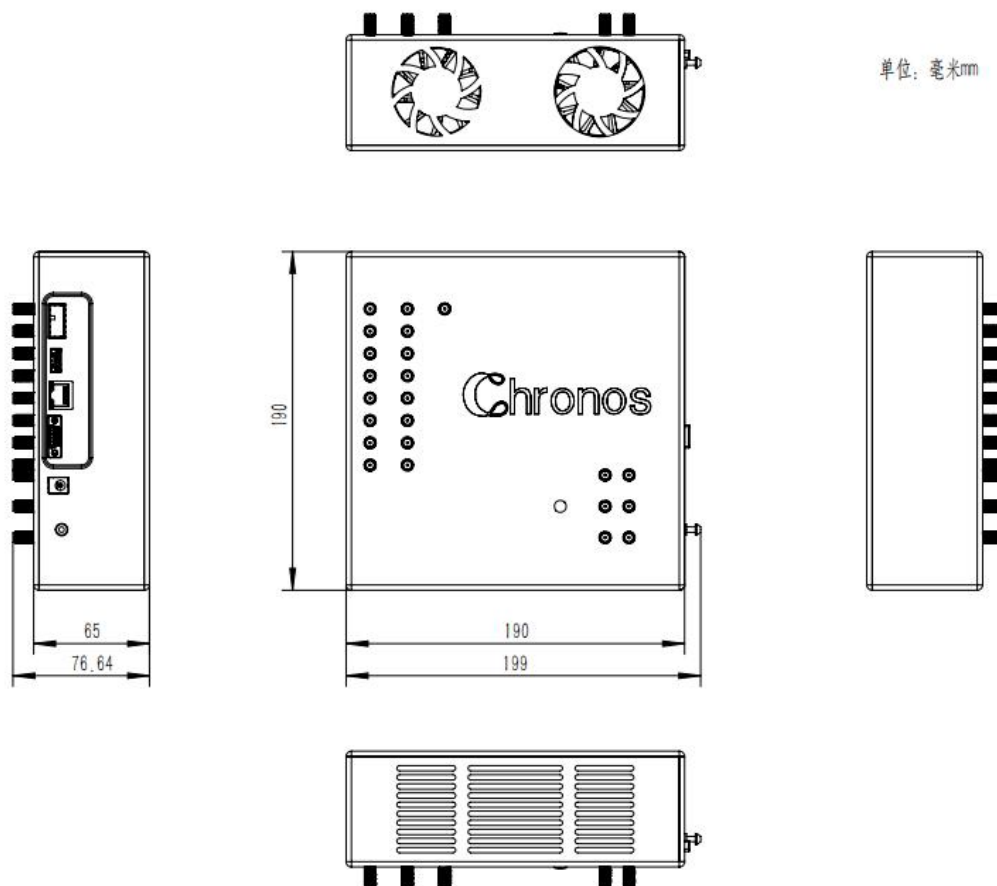


图 1 Venus Lite-T 系列产品外观和结构尺寸图

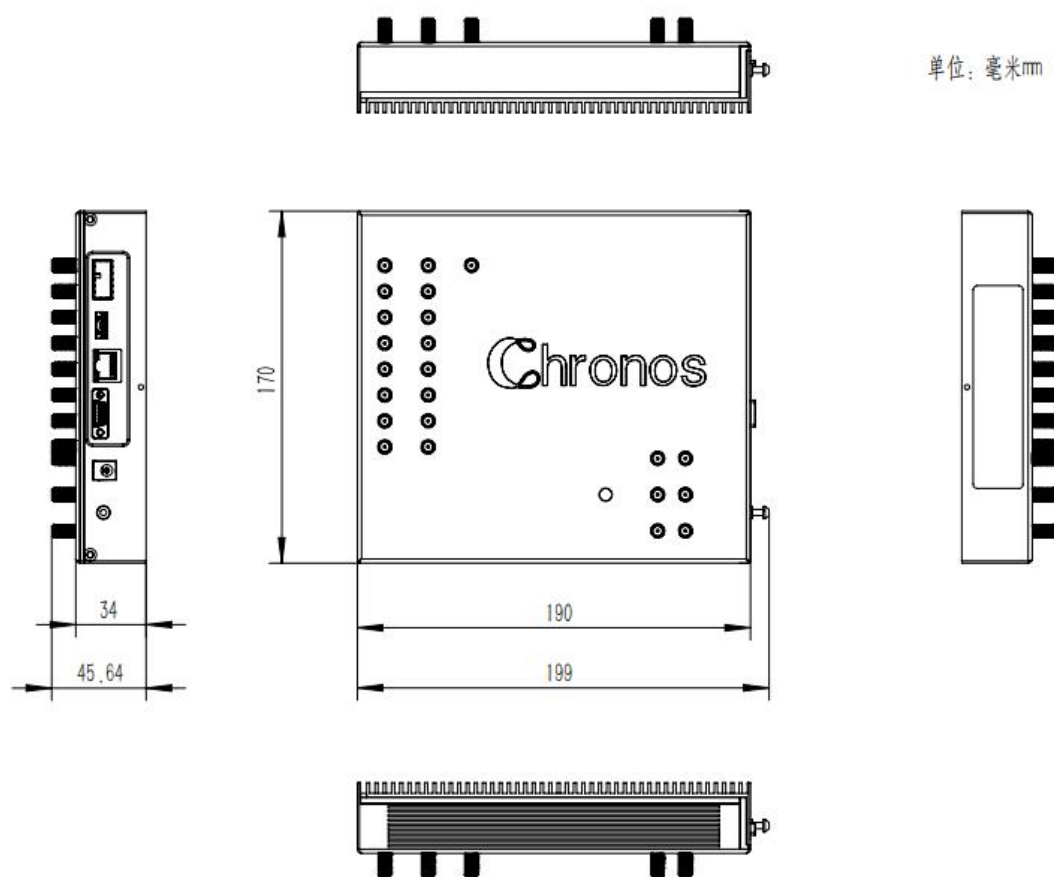


图 2 Venus Lite 系列产品外观和结构尺寸图