

# This Former Spirent Business is Now Part of VIAVI

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## Spirent TSN & Automotive C2 Appliance

### Compact Layer 2-3 Test Platform

#### **Solution Overview**

Spirent Automotive C2 Appliance is capable of generating real world network scenarios and deterministic traffic patterns so in vehicle-networks, services and individual network elements can be validated quickly, reliable and in a repeatable manner.

This compact and portable 2U form factor network testing system enables companies of all sizes to test smarter and optimize their test investment by leveraging the industry-leading test capabilities Spirent offers, in a very cost efficient hardware package.

The C2 can accommodate up to two interface cards (NICs) and up to 8 Ethernet ports with fully synchronized hardware timing crossing NICs and ports, with a wide range of Base-T1 interfaces available, including 10Base-T1S and 100/1000Base-T1.

#### **Applications**

C2 is ideal for Automotive OEMs, Tier 1s, component manufacturers and chip makers performing:

- R&D testing involving technology feasibility studies and performance modeling
- Device and protocol functional testing
- Device, sub-system, or services performance characterization, scalability and availability
- Stress testing requiring higher device and traffic emulation scaling capability & higher physical interface connection
- Device benchmarking: test using IETF RFC 2544, RFC 2889 and RFC 3918 methodologies with easy test setup using dynamically bound traffic and automated wizards

#### Realism & Productivity

- Realistic Layer 2–3 traffic generation to test Quality of Service (QoS) and Time Sensitive Networking (TSN) & realistic user and endpoint emulation to test applications and the Software Defined Vehicles of the future
- Real-time traffic and protocol controls enable the tester to validate and troubleshoot problems by altering the test configuration while the test is running
- Real-time results views and analytics allow the user to see how the network responds to changes in specific test conditions without having to stop the test and save the results





#### Features & Benefits

- Multi-speed, 10M/100M/1G Ethernet for flexible interconnect with various options, including T1S, Base-T1 or Base-T copper.
- Flexible configurations, from 4 to 8 ports, with per-port reservation available
- 2.5 ns Tx timestamp resolution with intra-chassis and inter-chassis synchronization
- Full chassis chaining and external timing synch available via direct connect, NTP, PTP, GPS, and CDMA
- Very low noise for benchtop operation in proximity to users
- Full suite of Spirent TestCenter protocols and test packages are available
- Built-in wizards and automated test scenarios reduce test setup and execution times
- Now with MACsec supported

Technical Specifications  Spirent TSN & Automotive C2 Appliance	
	Frame time-stamp resolution of 2.5ns
	<ul> <li>GPS and CDMA-based external time sources are supported</li> </ul>
	<ul> <li>IEEE 1588v2 and NTP packet-based external time sources are supported</li> </ul>
	<ul> <li>TIA/EIA-95B-based external time sources are supported</li> </ul>
Histograms	Port-level histograms
Environmental Specifications (non-condensing)	• Operating: 0 C - 35 C, 10% - 70%
	• Storage: -20 C - 70 C, 0% to 100%
Altitude	-100 to 1500 feet
AC Power Adapter Specifications	Input voltage range: 100V-240V 50-60Hz; Output voltage range: 19.5V 16.9A 330W
Total DC Power	330W
Product Weight	Unit installed weight: 13 lb. (5.90 kg)
Product Dimensions	11.2" (D) x 13.9" (W) x 3.5" (H) or 28.45cm x 35.31cm x 8.89cm

#### Requirements

- Windows-based workstation with 10/100/1000 Mbps Ethernet NIC; mouse and color monitor required for GUI operation
- Linux- or Windows-based workstation for scripting
- Mac-, Linux-, or Windows-based workstation for Rest API support

#### **Ordering Information**

Kit Number	Media Support
AUTO-C2-KIT-01	AUTO C2 4-PORT 10M-T1S, HW TIME & PGA SW
AUTO-C2-KIT-02	AUTO C2 8-PORT 10M-T1S, HW TIME & PGA SW
AUTO-C2-KIT-03	AUTO C2 4-PORT 10M-T1S, 4-PORT FX2 1G SFP, HW TIME & PGA SW
AUTO-C2-KIT-04	AUTO C2 8-PORT FX2 1G SFP, HW TIME & PGA SW

