

C2 Multi-speed Appliances

10/5/2.5/1G and 100M

Solution Overview

Test a network or device with a solution that reproduces anything less than a realistic environment and you risk slower product development and deployment, and lower network service quality. Spirent C2 Appliance helps minimize your risk by mirroring actual network scenarios and traffic patterns so networks, services and individual network elements can be quickly validated.

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.

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. This provides a single clocking source for all test ports in one appliance for synchronized TX and RX clocking across NICs as well as additional port count for time-sensitive tests. It supports Spirent TestCenter™ with various L2-7 protocols and physical interfaces such as High-Speed Ethernet, and Automotive.

Spirent sets the standard for testing the network environment with unparalleled realism and test packages. C2 appliance is the ideal tool throughout the test lifecycle for performing functional, performance and benchmark testing of data center, high-speed routers, access points, service provider network infrastructure, and evolving SDN and NFV technologies to cover the different configurations required for in-lab and live/operational networking testing.

Applications

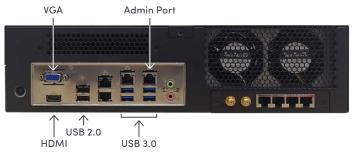
- Network element engineering development, design and test groups requiring physical access to a test port on the workbench
- Network equipment manufacturers doing burn-in and production line tests requiring low port count and compactness
- Technical and field marketing groups needing a portable test solution
- Field service engineers for testing live networking
- Network engineers and technicians performing pre-deployment testing and troubleshooting and service rollout testing
- University computer science departments and technical training organizations requiring a hands-on test tool
- Enterprise IT conducting new device and networking testing

The Spirent C2 Appliance offers the power of Spirent's award-winning Layer 2-7 router, switch, and application and security test solutions in a portable form factor with up to 8 Ethernet ports.

With support of various Ethernet for line-rates 10G, 5G, 2.5G, 1G and 100M test ports, it can also support the complete suite of Spirent test solutions for other interfaces including Automotive Ethernet.

The C2 offers the power of a professional test tool used by the world's top network equipment manufacturers, service providers and enterprise users.







Technical Specifications	NDACE T LIFEE 000 21		
Media support:	NBASE-T and IEEE 802.3bz compliant		
	Spirent Wi-Fi 6 NIC		
	Support up to 8 Ethernet ports		
Inter-NIC and inter-system time	Ports in the same chassis are phase-locked to the internal timing source. For separate systems:		
synchronization	 Timing chain synchronization with +/- 20ns 		
	Synchronized via GPS or CDMA network		
	Using NTP or PTP packet-based approaches		
User reservation	Per-port reservation available		
VFDs	6 VFDs available for each of 256 stream templates		
Frame length range and controls	100% line rate for frames of 60-16004 bytes controlled by fixed, increment, decrement,		
	random, and IMIX modes		
Statistics	Nearly 50 transmit stats per port reported in real time. Includes Layer 1-4 counters and rates		
	and checksum and CRC errors		
	Over 40 real-time measurements per stream including advanced sequencing, latency, jitter, and		
	data integrity		
Line clocking and packet time Stamping,	Stratum-3 oscillator default time source; adjustable +/- 102 PPM		
transmit line clocking and timestamping	Frame timestamp resolution is 2.5ns		
from the built-in hardware timing interface	NTP and PTP support		
Capture	256 MB per port with sophisticated trigger and filtering controls		
Histograms	Port-level histograms		
Interface Component	Power switch	External Time Reference (ETR) Connectors	
	Admin port: Used for the administration of the	• 10 MHz with 50 Ohm cable (SMA)	
	C2 system	• 1 PPS with 50 Ohm cable (SMA)	
	VGA – External monitor	SERIAL DCE (RJ45)	
	HDMI – External monitor	• IEEE 1588 - Connect to 1588 LAN with	
	USB 2.0 – Support USB devices including	Ethernet LAN cable (RJ45)	
	keyboard, mouse, USB drive	Multiple Chassis Connections	
	USB 3.0 - Support USB devices including	SYNC OUT (RJ45)	
	keyboard, mouse, USB drive	• SYNC IN (RJ45)	
	Test ports: the number of ports and the available		
	functionality depends on a specific appliance		
	configuration		
Physical Specifications	3.5" (H) x 13.9" (W) x 11.2" (D)		
	Weight: 13 pounds (without external power adapter)		
Environmental Specifications	Operating: 0 C - 35 C, 10% - 70%		
(non-condensing)	Storage: -20 C - 70 C, 0% to 100%		
AC Power Adapter Specifications	Input voltage range: 100V-240V 50-60Hz; Output voltage range: 19.5V 16.9A 330W		
Total DC Power	330W		
Safety Compliance and	• FCC Part 15 Class A		
Certifications	CE Mark Class A EN 55032:2012; EN 55024:2010; EN 61000-3-3:2013; EN 61000-3-2:2014		
	• UL 60950-1:2007 R10.14		
		CAN/CSA-C22.2 NO.60950-1-07+A1:2011+A2:2014	

Product Information

Description	Part Number
C2 Enterprise Benchmarking Kit with 1YR Support	AP-C2-EP-KIT-BM-1
C2 Enterprise Benchmarking Kit with 3YR Support	AP-C2-EP-KIT-BM-3
C2 Enterprise Benchmarking and Routing Kit with 1YR Support	AP-C2-EP-KIT-BM-ROUTING-1
C2 Enterprise Benchmarking and Routing Kit with 3YR Support	AP-C2-EP-KIT-BM-ROUTING-3

A full complement of Spirent protocol and test packages are available with perpetual and subscription licensing options. Please contact your Spirent sales representative to select the right option for your test needs.

About Spirent Communications

Spirent Communications (LSE: SPT) is a global leader with deep expertise and decades of experience in testing, assurance, analytics and security, serving developers, service providers, and enterprise networks. We help bring clarity to increasingly complex technological and business challenges. Spirent's customers have made a promise to their customers to deliver superior performance. Spirent assures that those promises are fulfilled. For more information visit: www.spirent.com

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