

Landslide C100-M6

Validating Next-Generation Mobile Core Networks at Scale

Solution Overview

The Keysight C100-M6 is a ready-to-deploy high performance, high-capacity test server optimized for Keysight Landslide. C100-M6 enables the Landslide application to provide the highest scale and most realistic mobile emulation while providing a significant increase in the amount of mobile application traffic over the previous generation test server.

It comes pre-installed with Landslide software. It supports PCIe Gen 5 across five x16 expansion slots (plus two OCP 3.0 mezzanine slots), enabling high-throughput test traffic generation and analysis up to 1 Terabit per second (Tbps). C100-M6 also adds support for AI traffic modeling in mobile networks. Support for 400G NICs is introduced with the C100-M6.



High-Performance Validation

The Landslide C100-M6 is the highest performance Landslide Test Server. The test server performs the role of control and data plane load generation and analysis as well as emulation of adjacent nodes surrounding the network under test. Using a combination of powerful processors and hardware accelerators, the C100-M6 delivers at least 3 times the performance of its predecessor.

Flexible Scaling Options

Customers can choose from a range of high-performance network interface cards (NICs) at varying speeds ranging from 25G to 400G, which are installed and validated before shipment to ensure seamless out-of-the-box performance. It is designed for customers who want to focus on predictable high performance or high-capacity testing and validation.

The C100-M6 test server is available at four performance levels through a choice of specific licenses. Customers can start at the level that meets their current requirements and can move to a higher performance level later through the addition of the appropriate license. The C100-M6 also offers optional IPSec and TLS acceleration licenses, which are critical for high-performance testing of applications such as VoLTE, VoNR, etc.

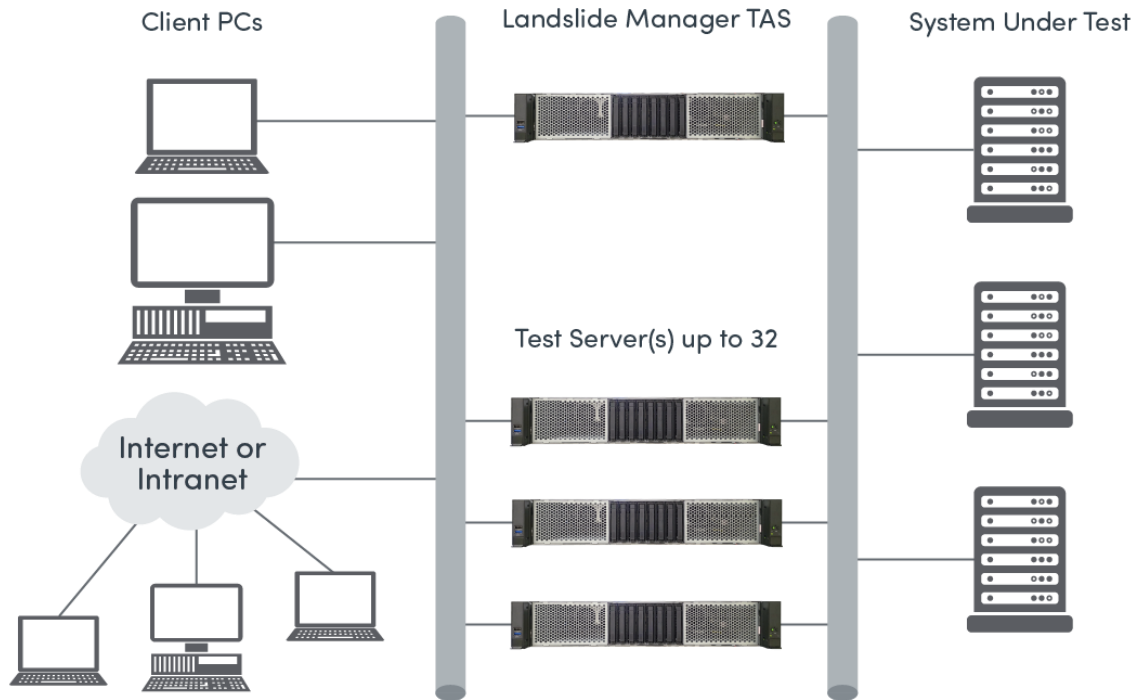
Applications

Keysight Landslide has the ability to both test and emulate the nodes of the mobile core, ORAN, carrier, Wi-Fi, IMS and Diameter networks. Test cases include:

Technology domain	Test coverage
5G	AMF, AUSF, CHF, Dual-Connectivity 5G NSA, EIR, gNB, gNB-CU (NSA & SA), IP Data, Network Mobility, NEF, NRF, NSSF, PCF, SMF, UDM, UPF
4.5G	DECOR, Dual-Connectivity 5G NSA, eMBMS, Emergency PDNs, HSS, IoT, IP Data, IPSec, LCS, MCPTT, MME, NB-IoT IP/Non-IP, Network Mobility, Off line Charging, On line Charging, Rel14 CUPS, SCEF, SGW-C/SGW-U, PGW-C/PGW-U, Video Quality, Voice Quality, VoLTE/VoIP
4G	CSFB, Dual-Connectivity 5G NSA, EIR, eMBMS, Emergency PDNs, eNodeB, ePDG, Femtocell, HSS, IP Data, IPSec, Iu-CS/3G Voice, L2TP VPN Gateway, LCS, MME, Network Mobility, Off line Charging, On line Charging, Security Gateway, SGW/PGW, SMS, SRVCC, Video Quality, Voice Quality, VoLTE/VoIP
2G/3G	CSFB, EIR, Emergency PDNs, Femtocell, GPRS, HLR, HNB Gateway, Home NodeB, IP Data, Iu-CS/3G Voice, MSC, Network Mobility, Security Gateway, SGSN/GGSN, SMS, UMTS
Diameter	AAA Diameter, DCCA, DRA, EIR, HLR, HSS, IPSec, LCS, MME, Off line Charging, On line Charging, PCC, PCRF, SCEF, SGSN/GGSN, TAS/AS
IMS	ATCF/ATGW, BGCF, ePDG, E-CSCF, GMLC, HSS, I/P/S-CSCF, IMS, IPSec, MCPTT, MGCF, TAS/AS, Video Quality, Voice Quality, VoLTE/VoIP, VoWi-Fi
Wi-Fi	CAPWAP, ePDG, GRE, IP Data, IPSec, N3IWF, Security Gateway, Trusted/Untrusted WiFi Access, TWIF, VoWi-Fi, Wi-Fi Offload, Wi-Fi RF
Other	AAA Radius, ABR Video, CDMA Femtocell, CDMA2000, eHRPD, IP Data, IPSec, L2TP VPN Gateway, LDAP, MIPv4/v6, Mobile Attacks, QoS/QoE, Radius, Reporting, Test Automation, UDR, WiMAX, WLAN Gateway

Configuration

The Landslide Manager can be deployed as a physical or virtual system and controls up to 32 test servers, including C100-M6 platforms. Capacity and throughput can be scaled by adding test servers as needed. Users access Landslide via a web browser, Tcl API, or REST API, all connecting through the Manager, which supports up to 48 simultaneous users.



Technical Specifications

Keysight Landslide C100-M6

Dimensions	30.31" x 17.24" x 3.43" (770 x 438 x 87 mm) Fits standard 19" rack
Weight	46 kgs (including mounting rails)
Operating environment	10 °C ~ 35 °C (50 °F ~ 95 °F)
Non-operating environment	-20 °C ~ 70 °C (-40 °F ~ 158 °F)
Humidity	85% (Operating humidity) / 90% (Non-operating Humidity)
Power requirements	100-127 VAC / 200-240 VAC, 50/60 Hz, 2000 W Max
Regulatory approvals	1. FCC Part 15 (USA) Subpart B, class A, ICES-003 (Canada), CE EN55032 emission requirements (EU), VCCI (Japan), BSMI (Taiwan), RCM DoC (Australia and New Zealand) 2. EMC Directive 2014/30/EU 3. RoHS Directive 2011/65/EU
Connectivity ¹	1x 1G management port

1. The server will have more ports depending on number and type of NICs installed.

Client PC Requirements

The Landslide Client hardware requirements depend on the system license and the testing activity. The recommended values are:

- 64-bit Operating System with 4 GB RAM and 1 GB memory assigned to client
- Minimum 10 GB available disk space
- 100 MB/1G Ethernet connection to the LAN

The Landslide Client software requirements are:

- Test system web pages are best viewed with Internet Explorer 10+ and Firefox 30+
- JavaScript and Java Web Start must be enabled in the browser
- Popup blockers should be disabled before starting
- Cookies should be allowed if you want your memory settings to save
- Java™ Runtime Environment 1.8.0 (or later) is required for the Landslide Application

Ordering Information

Part number	Product name	Test coverage
Test Manager		
L-C100-S5-MGR	Landslide C100 S4 System Manager	Physical Landslide C100 Test manager for Landslide test systems, requires test server(s) and test applications
L-C100-MGR-VTAS	Landslide Virtual C100 Test Manager License	Virtual Landslide C100 Test manager license, requires test server(s) and test applications
Test Server		
L-C100-M6-TS	C100-M6 Landslide Add-On Test Server	Add-on test server for existing Landslide test system. Includes 512 GB memory, base SW and system license. NICs purchased separately
Interface Modules – Maximum of 4 per Test Server		
L-NIC-66	Landslide Quad-Port 10 GBPS SFP+ NIC	Quad-port optical 10 GbE NIC. Includes four 10GBASE-SR 850 nm MMF transceivers.
L-NIC-73	Landslide Dual-Port 25 GBPS SFP28 NIC	Dual port optical and direct attach copper 25 Gbe NIC. Includes SFP28 25 GBASE-SR 850 nm MMF transceivers and SFP28 direct attach copper media.
L-NIC-74	Landslide Dual-Port 40 GBPS QSFP+ NIC	Dual-port optical and direct attach copper 40 GbE NIC. Includes QSFP+ 850nm MMF optical transceivers and QSFP+ CR4 direct attach copper media. QSFP+ 40GBASE-LR4 1310 nm SMF optical transceiver available, see L-ACC-6004.
L-NIC-80	Landslide Dual-Port 100 GBPS QSFP+ NIC	Dual-port optical and direct attach copper 100 GbE NIC. Includes QSFP28+ 850 nm multi-mode fiber optical transceivers and QSFP28 passive copper cable for 100 GbE. QSFP28+ 100GBASE-LR4 1310 nm SMF optical transceiver available, see L-ACC-6005.
L-NIC-90	Landslide Single-Port 400 GBPS NIC	
L-ACC-6004	Landslide Optical Transceiver QSFP+ 40 GBASE-LR4 SMF 1310 NM	QSFP+ 40GBASE-LR4 1310 nm, single mode fiber transceiver. For use in L-NIC-74 only, one per NIC port required.
L-ACC-6005	Landslide Optical Transceiver QSFP28 100 GBASE-LR4 SMF 1310 NM	QSFP28 100GBASE-LR4 1310 nm, single mode fiber optical transceiver. For use in the L-NIC-75 only.

Part number	Product name	Test coverage
Performance and Accelerator Licenses		
L-FT-932-B	C100-M6 Landslide performance accelerator license	C100-M6 Landslide performance accelerator license - Improves test server data throughput and control plane performance for mobility test applications. For Landslide C100-M6 Test Servers only. Per Test Server
L-FT-932-C	C100-M6 Landslide extreme license	C100-M6 Landslide extreme capacity license – Further increases test server data throughput and control plane capacity. For Landslide C100-M6 test servers only. Per Test Server.
L-FT-932-D	C100-M6 Landslide ultra extreme license	C100-M6 Landslide ultra capacity license - Increases test server data throughput and control plane capacity to the max. Landslide C100-M6 test servers only. Per Test Server.

A full complement of test applications and features are available. Please contact your Keysight sales representative to select the right options for your testing needs.

Keysight enables innovators to push the boundaries of engineering by quickly solving design, emulation, and test challenges to create the best product experiences. Start your innovation journey at www.keysight.com.



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