ecsite™

Automation + Digital Transformation.
Built for the 5G era.

ECSite Smart Load™ Cable Tester with Bluetooth®

Dramatically simplifies telecom cable testing.

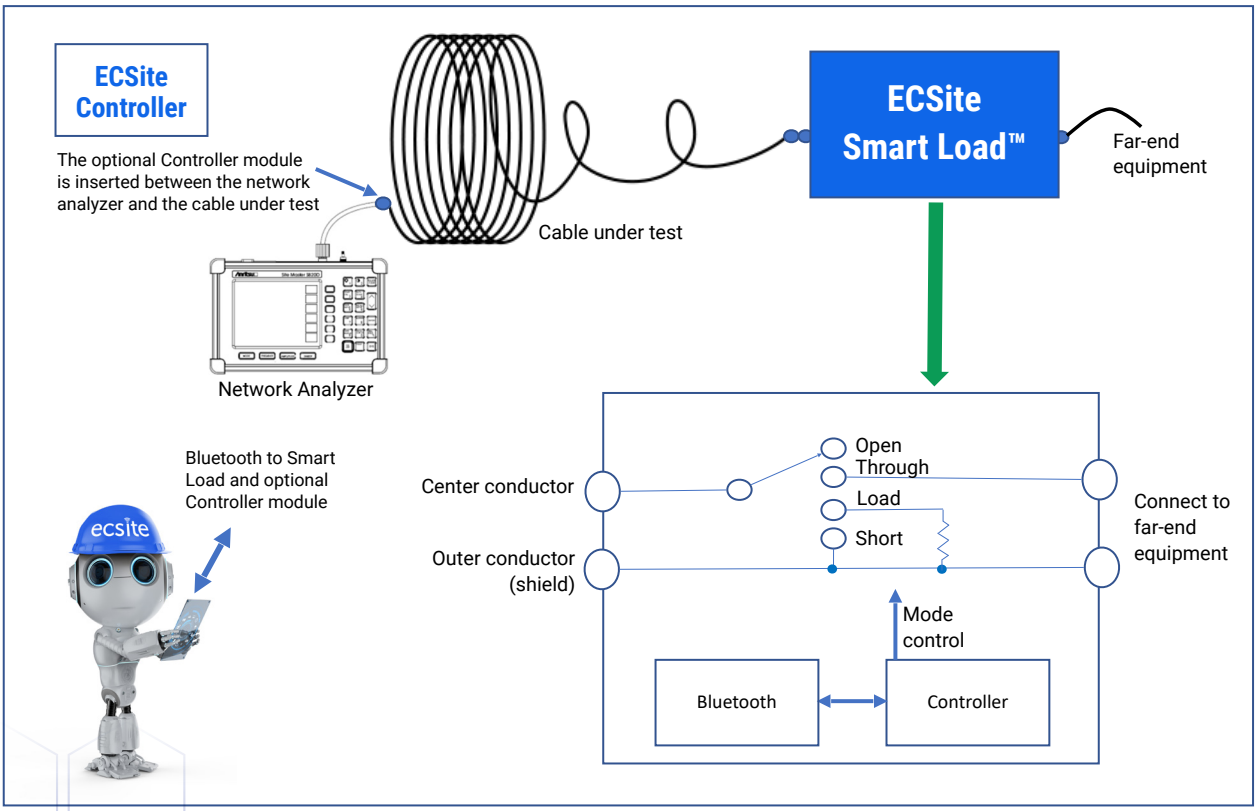
The ECSite Smart Load™ is a Bluetooth®-enabled, remotely programmable open/short/load/through (Remote OSLT) telecom cable tester.

Attached to the far end of a coax cable, it allows a single technician to fully verify every aspect of the cable's operation and quality from one location.

With a 50-foot Bluetooth® range, the technician can switch the cable tester's functions from a companion mobile app. If further range is needed a controller module can be included to control the tester via *bidirectional* communication directly through the coax cable.

Open, short, and load operation facilitate measurements of insertion loss, distance-to-fault, and return loss, while through mode allows far-end equipment to be connected and verified.

Using the ECSite app with a suitable cable and antenna analyzer, the operator can sequence through all cable tests and record the results rapidly and accurately, allowing faster, more precise COP completion.



Smart Load Features

- Available with optional controller module for direct bidirectional cable communication
- Includes push-button operation for manual control, and LEDs to indicate selected mode. An accompanying loud beep also indicates mode change
- Bluetooth low energy range of up to fifty feet
- Internal rechargeable battery allows for 24 hours of continuous operation
- Available with N-type and low-PIM 4.3-10 connectors
- Internal load allows return loss measurements up to 20 dB at frequencies up to 4 GHz
- For indoor/fair weather conditions
- Verified and integrated with Anritsu SiteMaster, Keysight FieldFox, Kaelus iVA and Rohde & Schwarz FPH instruments
- In lab tests, speeds up manual testing by a factor of five when used with ECSite App
- iOS and Android apps available
- View the assets and usage reports on the ECCloud™

Operating Modes

Open	An infinite impedance termination used for insertion loss/cable loss
Short	Applies a zero-Ohm short across the cable end for distance-to-fault measurements
Load	Applies a characteristic 50Ω impedance load to the cable for return loss (reflection) measurements.
Through	Takes the Smart Load™ out of circuit and connects the cable to the far-end equipment

Key Specifications

Frequency Range: 100MHz to 4GHz

Modes: RF Open, RF Short, RF 50 Ohms Load, Through

Mode Control: Mechanical Push buttons, remote control over USB, BT, Coax Input port

Switching Time: < 1ms

RF Isolation: > 30dB

Connections: USB, BT

Return Loss: 20dB or better

Supported Connectors: 4.3-10, N-type 50Ohms

Battery life: 24 hours on continuous usage

Dimensions: 4" x 2.5" x 1.5" (without the connectors)

Weight: 11.8 oz

The part numbers of the different Smart Load ™ configurations are listed below.
The -<C1>-<C2> refer to the input and output port of each model (i.e. ECSL-001-20-BT-sa-i-NM-NF).

Part Number	Description
ECSL-001-20-BT-sa-i-<C1>-<C2>	Standalone BT, indoor unit with 20dB return loss
ECSL-001-20-USB-sa-i--<C1>-<C2>	Standalone USB unit with 20dB return loss
ECSL-001-20-BT-rmt-i--<C1>-<C2>	Remote Unit, with 20dB return loss. Needs a companion controller module
ECSL-001-20-BT-ctl-i--<C1>-<C2>	Controller unit that communicates to the Remote unit through the cable under test. Needs a companion remote unit.
ECSL-001-24-xx-xxx-i--<C1>-<cC2>	All above configurations with 24+ dB of return loss
ECSL-001-24-xx-xxx-i-pwr--<C1>-<C2>	All above configurations with optional power meter (accurate to 0.25 dB) to measure power at the far end of the cable/system

The connectors configuration table is shown below:

Connector Code	Description
NM	N-type Male
NF	N-type Female
4M	4.3-10 male
4F	4.3-10 Female

Note: Smart Load™ is NOT a calibration tool.
The ECSite Smart Load™ is currently in beta and available for limited trials to ECSite customers.

For more information, please contact ECSite:

About ECSite

Launched in 2019, ECSite has worked with Network Operators, 3POs, Integrators and GCs in providing advanced automation solutions for highly technical site data collection and management for DAS, Small Cells, Public Safety, Macros and OSP projects. Automating field test instruments for sweeps, PIMs, fiber, CW, CAT6 is a cornerstone of ECSite software.

ecsite™

info@ecsiteapp.com
www.ecsiteapp.com