

# ACT v2 Connector Module Bundle: Apple Lightning

Part Number: TP825110



Distribution: Physical Shipment

Availability: Limited Availability



Price: €1600

THIS BUNDLE CONSISTS OF THE FOLLOWING:

- 1 Advanced Cable Tester v2 USB Type-C to USB Type-C module
- 1 Advanced Cable Tester v2 USB Type-C to Apple Lightning (USB2) module
- 2 Advanced Cable Tester v2 USB Standard-A to Apple Lightning (USB2) modules

Please note, these modules are only compatible with the [Advanced Cable Tester v2](#)

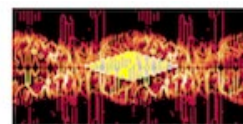
These **Advanced Cable Tester v2** modules enable testing of USB Type-C to Apple Lightning USB2, USB Standard-A to Apple Lightning USB2, and USB Type-C to USB Type-C cables for:

- Short testing - Dynamic visualization of test results
  - Open testing - Dynamic visualization of test results
  - Continuity testing - Dynamic visualization of test results
  - DC resistance measurement for most wires, with milliohm precision on ground and power wires, ohm resolution on most other wires, continuity check only on high-speed data lines
  - Signal integrity testing of data lines to 12.8 Gbps per channel
  - E-Marker verification
  - Lightning plug bring up/function (Apple Lightning Cables)\*
  - Over-voltage protection (Apple Lightning Cables)\*
  - Voltage recovery testing (Apple Lightning Cables)\*
  - Quiescent current consumption (Apple Lightning Cables)\*
- \* Apple MFi membership required to run these tests

	Expected	Measured
✓ HEO	77%	95%
✓ VEO	43%	93%



	Expected	Measured
✗ HEO	77%	0%
✗ VEO	43%	0%



Left: passing USB Type-C to Lightning USB2 eye diagram. Right: failing USB Type-C to Lightning USB2 eye diagram.

Other connector modules are available:

- USB Type-C to USB Standard-A (USB 3.2 and earlier version specifications)
- USB Type-C to USB Micro-B (USB 3.2 and earlier version specifications)
- USB Type-C to USB Standard-B (USB 3.2 and earlier version specifications)
- USB Standard-A to USB Micro-B (USB 3.2 and earlier version specifications)
- HDMI to HDMI (HDMI 2.1 and earlier version specifications)
- DisplayPort to DisplayPort (DisplayPort 1.4 and early version specifications)

[Key Features](#) [Technical Specifications](#) [Software Requirements](#)

[Reviews](#) [Related Products](#)

### Test Compatibility/Coverage

- Apple MFi accessory specification R31
- Short testing - Dynamic visualization of test results
- Open testing - Dynamic visualization of test results
- Continuity testing - Dynamic visualization of test results
- DC resistance measurement for most wires, with milliohm precision on ground and power wires, ohm resolution on most other wires
- Signal integrity testing of data lines at ~520 Mbps
- Lightning plug bring up/function (Apple Lightning Cables)\*
- Over-voltage protection (Apple Lightning Cables)\*
- Voltage recovery testing (Apple Lightning Cables)\*
- Quiescent current consumption (Apple Lightning Cables)\*

\* Apple MFi membership required to run these tests

### Insertions

- Insertion/test count tracking ensures reliable operation.
- Total Phase uses the highest quality connectors available in our Advanced Cable Tester devices. The expected life span, without any test degradation, for the Advanced Cable Tester v2 USB Type-C to USB Type-C module, the Advanced Cable Tester v2 USB Type-C to Apple Lightning (USB2) module, and the Advanced Cable Tester v2 USB Standard-A to Apple Lightning (USB2) module is 10,000 tests.
- All connector modules require the use of the Total Phase [Advanced Cable Tester v2](#).

### What's Included

- 1 [Advanced Cable Tester v2 USB Type-C to USB Type-C module](#)
- 1 [Advanced Cable Tester v2 USB Type-C to Apple Lightning \(USB2\) module](#)
- 2 [Advanced Cable Tester v2 USB Standard-A to Apple Lightning \(USB2\) modules](#)