

Part Number: USC-ITA-CUSTOM

Part Description:

Interface Test Adapters (ITA) are designed and manufactured by Universal Synaptics to allow any Unit Under Test (UUT) to be tested with the Intermittent Fault Detector™ (IFD™). UUT examples include Electronic Wiring Interconnect Systems (EWIS), wiring harnesses, or components such as aircraft Line Replaceable Units (LRU) / Weapon Replaceable Assemblies (WRA). The primary purpose of an ITA is to electrically connect the test points of the IFD to each electrical contact of the UUT, allowing the IFD AutoMap™ to discover the as-wired configuration of any version of the unit with the same connections, validate expected wiring, check for unexpected connections, and then monitor the UUT for intermittent events during the testing period.

The ITA manufacturing process allows for easy management of the ITA for use and storage. The IFD interface test adapter and UUT connections will be clearly labeled for proper connection to the IFD and the UUT, respectively.

Deliverables include the physical ITA, data package, Fault Isolation Graphic, User Guide, and Maintenance Parts List. In addition, ITA configuration information will be added to the customer’s IFD as part of the delivery.



Part Specifications:

IFD Interface Options	☐ 50 Pin D-Sub (Portable IFD) ☐ Virginia Panel G10 (Intermittent Fault Detection and Isolation System (IFDIS))
Adapter Options	☐ Custom design for SRU/SRA interfaces to duplicate SRU/SRA in fit and form ☐ Available commercial connectors ☐ Available Mil-Spec connectors ☐ Any combination of the above ☐ Other per application requirements
Wiring Specification	☐ Minimum 28 AWG stranded wire ☐ Shielded cable bundles (optional based on testing environment) ☐ Other per application requirements
Size and Weight	☐ 12 to 16 feet for IFDIS ☐ 6 to 20 feet for Portable IFD ☐ Less than 30 lbs. per section ☐ Custom packaging available ☐ Other per application requirements
Environmental Spec.	☐ -40 to 70 degrees Celsius for environmental chamber use ☐ 2 to 50 degrees Celsius for standard use ☐ 5 to 90% humidity non-condensing ☐ Other per application requirements
Unit Fixture	☐ Custom per application requirements