

## Part Number: USC-IFD-05120

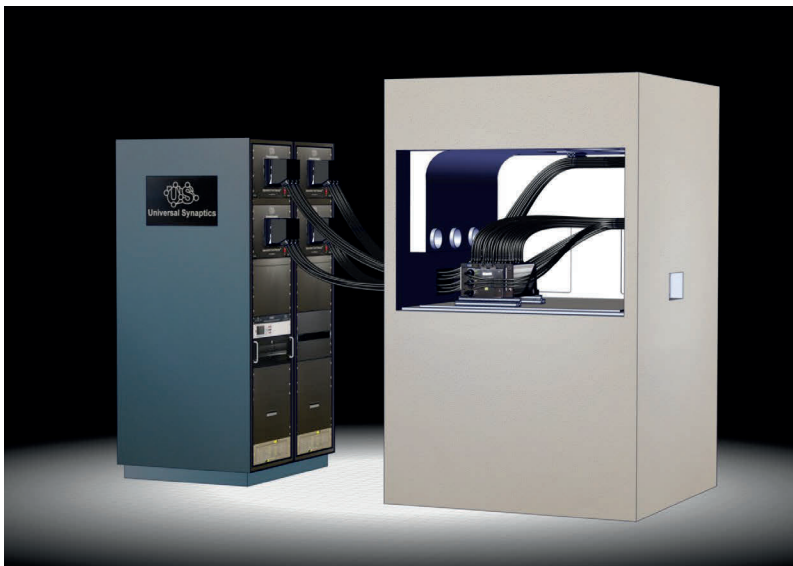
### Part Description:

The Intermittent Fault Detection product family is an advanced diagnostic tool that is purpose built to supplement traditional test equipment and address the decades old issue of intermittent failures. The patented Intermittent Fault Detector™ (IFD™) technology, by Universal Synaptics Corporation, can simultaneously and continuously monitor every circuit path within a Unit Under Test (UUT) for intermittent failures as short as 50 nanoseconds. This state-of-the-art technology is combined with an environmental chamber and vibration table, which simulate the UUT's operational environment and cause intermittent faults to manifest, creating a system that is unsurpassed in the Intermittent Fault Detection and Isolation System 2.0 (IFDIS 2.0™). To ensure a complete assessment of a UUT's wiring integrity, the IFD also has the capability to perform other traditional hard failure tests. Never has there been a more comprehensive and advanced UUT diagnostic solution.

Standard configuration of this depot-level member of the IFD product family is 5,120 test points. Configurations in increments of 1,280 test points are available. Refer to the Related Part Numbers specification below.



USC-IFD-05120 Single Rack



USC-IFD-05120 Dual Rack with Interface Test Adapter, Environmental Chamber, and Vibration Table

## Part Specifications:

|                              |   |
|------------------------------|---|
| <b>Integral Computer</b>     | <ul style="list-style-type: none"> <li><input type="checkbox"/> 4U rugged compact 19" rackmount chassis, Black E-4000, 19"x7"x18"</li> <li><input type="checkbox"/> Intel Quad Core i7 3.4GHz processor</li> <li><input type="checkbox"/> 4GB DDR3 DIMM</li> <li><input type="checkbox"/> Video system supports two 4K HDMI displays</li> <li><input type="checkbox"/> 1x Internal 512 GB solid state drive 2.5"</li> <li><input type="checkbox"/> Optical drive 5.25 24X SATA DVDRW</li> <li><input type="checkbox"/> 1x Front USB 2.0</li> <li><input type="checkbox"/> 1x Cooling fan 120mm + removable and washable filter</li> </ul> |
| <b>Test Software</b>         | <ul style="list-style-type: none"> <li><input type="checkbox"/> Synapse software - Intermittence, Continuity, Shorts, Fault Isolation, AutoMap, Test Reports</li> </ul>   |
| <b>Integrated Multimeter</b> | <ul style="list-style-type: none"> <li><input type="checkbox"/> 6.5 Digit fully integrated digital multimeter</li> <li><input type="checkbox"/> Calibration not required</li> </ul>   |
| <b>Test Interface (Pod)</b>  | <ul style="list-style-type: none"> <li><input type="checkbox"/> 1,280 G10 Virginia Panel Quick Disconnect interface connector</li> </ul>  |
| <b>Cabinet</b>               | <ul style="list-style-type: none"> <li><input type="checkbox"/> Cooling – 300 CFM Blower with automatic temperature control</li> <li><input type="checkbox"/> Aluminum extrusion and steel</li> <li><input type="checkbox"/> Swivel caster and leveling feet</li> <li><input type="checkbox"/> Rear access door with lock</li> <li><input type="checkbox"/> Front storage drawer</li> </ul>   |
| <b>Electrical Service</b>    | <ul style="list-style-type: none"> <li><input type="checkbox"/> AC Input Voltage – 100V-120V, 30A, Single Phase</li> <li><input type="checkbox"/> Frequency – 50 / 60Hz,</li> <li><input type="checkbox"/> L5-30P twist lock plug</li> <li><input type="checkbox"/> Sequenced Power Distribution – 15A, 16 Outlet</li> <li><input type="checkbox"/> Uninterrupted Power Supply – 3000 VA</li> </ul>   |
| <b>Size and Weight</b>       | <ul style="list-style-type: none"> <li><input type="checkbox"/> Exterior Dimensions – 84" x 22" x 38"</li> <li><input type="checkbox"/> System Weight – &lt;1000 lbs.</li> <li><input type="checkbox"/> Custom Packaging and Pallet Ramp</li> </ul>   |
| <b>Operating Environment</b> | <ul style="list-style-type: none"> <li><input type="checkbox"/> Temperature – 0 to +40 degrees Celsius</li> <li><input type="checkbox"/> Storage – -15 to +50 degrees Celsius</li> <li><input type="checkbox"/> Relative Humidity – 0 to 80%, Non-condensing</li> <li><input type="checkbox"/> Operating Elevation – 0-3000 m</li> <li><input type="checkbox"/> Acoustic Noise – 50DbA at 1m front side</li> </ul>  |
| <b>Regulatory</b>            | <ul style="list-style-type: none"> <li><input type="checkbox"/> MIL-PRF-32516</li> </ul>  |
| <b>Warranty</b>              | <ul style="list-style-type: none"> <li><input type="checkbox"/> 12 Months</li> </ul>  |
| <b>Related Part Numbers</b>  | <ul style="list-style-type: none"> <li><input type="checkbox"/> USC-IFD-01280, USC-IFD-02560, USC-IFD-03840, USC-IFD-06400, USC-IFD-07680, USC-IFD-08960, USC-IFD-10240</li> </ul>  |