

IRIS[®] 2000 AUTOMATIC TEST EQUIPMENT SYSTEM



IRIS[®] 2000 systems in operation with major airlines around the world have proven to be highly reliable, even when used in standard shop environments for more than one shift.

The Aeroflex IRIS[®] 2000 is a modular general purpose Automatic Test Equipment (ATE) system capable of testing a wide variety of avionics Line Replaceable Units (LRU). The IRIS[®] 2000 is the only ATE that combines the testing of RF, analog and digital LRU's in one ATE system.

The basic configuration of this station consists of two or three equipment towers containing measurement and stimulus resources. Two wing cabinets provide additional work surface area, storage space for cables and accessories, and additional room for measurement and stimulus resources. The system layout gives easy and convenient access to all equipment during use as well as for maintenance. In addition, space is available for specific LRU hardware and other future expansions.

The ATE design incorporates current state-of-the-art commercial off-the-shelf resources as well as Aeroflex designed equipment and software. This promotes industry standard compatibility and simple equipment maintenance. The avionics LRU to be tested is connected to a Test Unit Adapter (TUA), which in turn connects to the front of the IRIS[®] 2000 ATE at the Programmable Interface Unit. The modular design makes it very easy to expand the system with additional measurement and stimulus resources required to test future avionics and/or adapt the IRIS[®] 2000 system to test avionics installed in new aircraft.

The test software development process is in accordance with ARINC 625-1 specifications.

THOR[™] Test Executive

THOR[™], the Aeroflex test software development and operating environment, is a powerful Windows NT[™] and LabWindows[®] CVI based graphical user interface (GUI) developed to add features for ease of use by programmers and operators alike. Its point and click feature allows for ease of LRU testing, intuitive test control usage, and datalogging for identification and tracking of rogue units.

GENERAL SPECIFICATIONS

The basic IRIS[®] 2000 ATE system includes

Pentium[®] class PC

PIU Switching system

AC/DC Power supplies

Signal generators

Data Interface Devices

Measurement Devices

Spares Kit

Installation

Training

Documentation

Available Expansions

Digital Expansion

ADF Expansion

HF Expansion

Low Range Altimeter Expansion

Mode-S Expansion

TCAS Expansion
Air Data Expansion
GPS Expansion

THOR troubleshooting and debugging features

Test Sequence Editor
Alternate Test Sequence
Test Pre-conditions
Full/Partial Tests
Loop On Tests
Pause On Test Failure
Report to screen
Report To File
Debug

Every Test Program Set (TPS) includes

Test Program
Test Unit Adapter
Test Unit Adapter Self-test (if required)
Documentation

Test Program Sets

IRIS® 2000 capability list available upon request

ATE SPECIFICATIONS AND ENVIRONMENT

SHOP POWER REQUIREMENTS

AC Input Single Phase

115V +10% or 220V +10%

AC Frequency

50 Hz to 60 Hz

Power Consumption

Varies per configuration, 1.8 KVA typical

Ground

Isolated ground must be provided

LINE CURRENT REQUIREMENTS (BASE SYSTEM)

20 Amps maximum for 115V
10 Amps maximum for 220V

ENVIRONMENTAL REQUIREMENTS

Ambient Temperature

59° - 71° F, 15° - 25° C

Ambient Humidity

20% - 80% non-condensing

SHOP AREA REQUIREMENT FOR 2-BAY IRIS® 2000

Length

197 inches, 480 cm

Width

144 inches, 360 cm

Height

96 inches, 210 cm

Weight

2400 lbs, 1100 kg (fully configured)

ROOM CONFIGURATION

- The ATE room or shop area must have at least two conveniently located power outlets.
- Shelving for storage of the ATE test unit adapters, accessories and manuals is desirable.
- Sufficient floor space to allow the operator to move comfortably around the entire system is required.
- Standard room lighting and ventilation is sufficient for normal operations.

CHINA Beijing
Tel: [+86] (10) 6467 2761 2716
Fax: [+86] (10) 6467 2821

CHINA Shanghai
Tel: [+86] (21) 6282 8001
Fax: [+86] (21) 62828 8002

FINLAND
Tel: [+358] (9) 2709 5541
Fax: [+358] (9) 804 2441

FRANCE
Tel: [+33] 1 60 79 96 00
Fax: [+33] 1 60 77 69 22

GERMANY
Tel: [+49] 8131 2926-0
Fax: [+49] 8131 2926-130

HONG KONG
Tel: [+852] 2832 7988
Fax: [+852] 2834 5364

INDIA
Tel: [+91] 80 5115 4501
Fax: [+91] 80 5115 4502

KOREA
Tel: [+82] (2) 3424 2719
Fax: [+82] (2) 3424 8620

SCANDINAVIA
Tel: [+45] 9614 0045
Fax: [+45] 9614 0047

SPAIN
Tel: [+34] (91) 640 11 34
Fax: [+34] (91) 640 06 40

UK Burnham
Tel: [+44] (0) 1628 604455
Fax: [+44] (0) 1628 662017

UK Stevenage
Tel: [+44] (0) 1438 742200
Fax: [+44] (0) 1438 727601
Freephone: 0800 282388

USA Wichita
Tel: [+1] (316) 522 4981
Fax: [+1] (316) 522 1360
Toll Free: 800 835 2352

USA New Century
Tel: [+1] (913) 764 2452
Fax: [+1] (913) 782 5104

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www.aeroflex.com
info-test@eroflex.com



Our passion for performance is defined by three attributes represented by these three icons: solution-minded, performance-driven and customer-focused.