

RACAL
INSTRUMENTS

PORTABLE AND VERSATILE



FLITS

Front Line Integrated Test System

FLITS

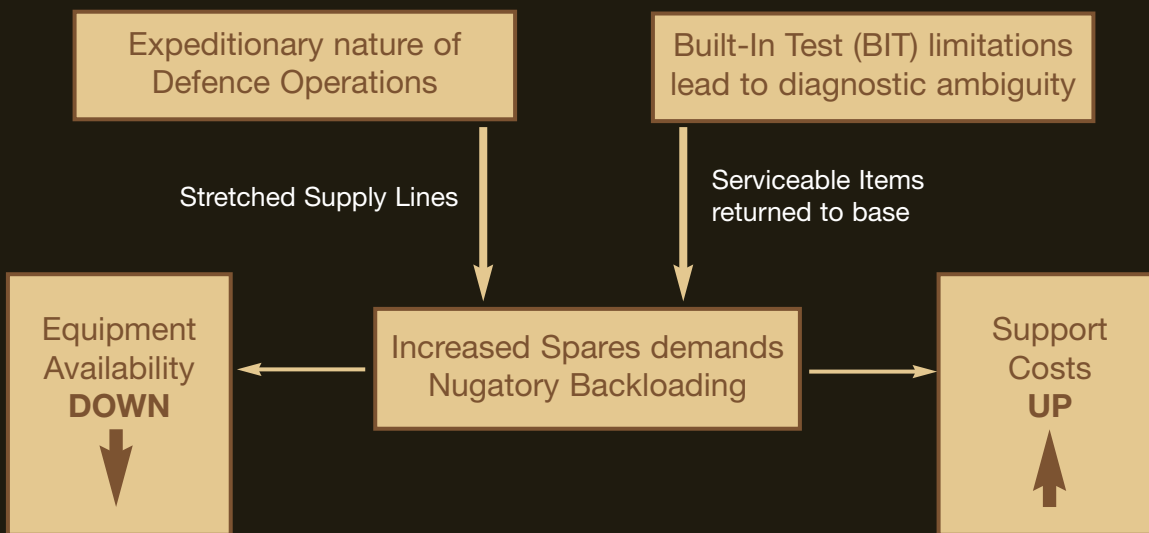
Front Line Integrated Test System

The portable front line test set that meets the challenge of supporting remote deployment.

Military operations in remote areas have little room for maintenance support resources. Yet the alternative repair loop to the base area often suffers from stretched supply lines.

Built-In Test (BIT) systems have been introduced to enable equipment failures to be identified, at 1st Line, to easily replaceable faulty items. However, BIT systems have limitations and current experience is that many supposedly faulty items returned to the 4th Line base for repair are found to be serviceable.

The 1st - 4th Line Maintenance Dilemma



Racal Instruments' FLITS is a multi-purpose Automated Test Equipment (ATE) compacted into a single hand portable PC.

To improve BIT systems beyond their current limitations is costly. An alternative is to supplement their capability with a First Line Test Set. A number of such are already in service, mostly dedicated to particular applications for individual major equipments. This is leading to a proliferation of different test sets and a further escalation of logistic support resources.

FLITS is a versatile, truly general purpose test facility, adaptable for a wide range of applications.

FLITS is a general purpose device that contains a range of test instruments (currently nine) in the form of PCI extension cards covering the majority of common first line test requirements. The facility can be rapidly customised for particular applications by cards from the wide range of PCI available commercially off the shelf.

The whole unit is ruggedised to military First Line/Flight Line environment standards and is approximately 30 litres in volume and weighs less than 13 Kg.

Configuration

The platform is a fully ruggedised PC with six extension slots for single or mezzanine PCI cards. The system software is Microsoft® Windows® 2000, and the test programs can be compiled from standard industry software.



Operation

The facility runs from standard military Aircraft /Vehicle power supplies [16-32V DC and 110-250VAC, 50-400Hz.] Operational modes are:

Test - Minimal operator intervention.

Diagnosis - Operator control of test parameters & sequence.

System Administrator - Control of access & mode selection

Host Capability - for Interactive Electronic Technical Manuals (IETM) and Health & Usage Monitoring System (HUMS) download.



Applications

Typical applications are the test and diagnosis of Communication Systems, Control Boxes (Gun, Turret etc.), Control Panels & Keyboards, Displays, Engine Management Systems, Internal Interfaces, Nav aids (Doppler, GPS etc), Power Supply Controls & Loads, Processors.



Programming

Optional Racal Instruments software consists of test operations control and programming within Racal Instruments' Generic Integrated Environment GENIE, providing :


Suites of test routines compiled from a library of fundamental tests expressed in a high level definition of Test Types.

Setting-up routines and Help files.
Instrument Drivers for instrument control with graphical 'Learn' capability.

Toolset for expanding test routines into test programs of variable tests.
Test Program Documentation generated automatically.

Availability

FLITS can be procured as a basic core facility with instruments included to suit the range of applications required. Test programming can be undertaken by the Customer or by Racal Instruments.



For more information on this latest addition to our range of versatile test and diagnostic systems contact:


Racal Instruments Group Ltd.
29-31 Cobham Road
Ferndown Industrial Estate
Wimborne
Dorset BH21 7PF
Tel: +44 (0) 1202 872800



Racal Instruments Inc.
4 Goodyear Street
Irvine
CA 92618
USA
Tel: +1 800 722 2528
+1 949 859 8999
Fax: +1 949 859 7139
info@racalstruments.com



Racal Instruments France
18 Avenue Dutartre
78150 Le Chesnay
France
Tel: +33 (0) 1 3923 2222
Fax: +33 (0) 1 3923 2225



See our website for further information:
www.racalinstrumentsgroup.co.uk

Email:
sales@racalinstrumentsgroup.co.uk