

*The Evolution
of Test*

Falcon



- **In-line system**
- **ICT & FCT system**
- **Fast fixture change**
- **Cycle time 4.5 sec**
- **Slimline**
- **Affordable**

digitaltest



Mechanical

Dimensions (height x width x depth)	Standard 185 x 90 x 60 cm (73 x 35 x 23")
Weight	Standard 350 kg (770 lb)

Board specifications

Board size	min. 80 x 40mm (3.15 x 1.57") max. 400 x 400mm (15.75 x 15.75")
Thickness	min. 1.5 mm

Fixture	
Standard Pylon interface	±0.3 mm (11.8mil)
Positional tolerance of units	max. 5%
Tangential deviation of units	more than 10mm (0.4")

Component Height

Upper side	max. 120mm (4.7")
Rear side	max. 18mm (0.7")
Weight	max. 3 kg (6.6lb)
Deflection	max. 2mm (78.7mil)

Operating Environment

Temperature	20-30 °C / 59-95F
Maximum humidity	80% not condensed
Handling time	Approx. 4.5 sec.

Hardware

Controller	Industrial PC (Pentium)
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Analog Matrix	Up to 512 channels (XL 1024 channels)
Signal Switching Unit (SSU)	- Array for each 128 pins - Pins can be connected to one of 6 bus lines
Hybrid Driver/Sensor module	Up to 256 channels (X L512 channels) - Array for each 64 pins

- Inputs/Outputs	
Max. Voltage	±10V programmable ±500mA backdriving or ±50mA in static operation

- Pin RAM (enables dynamic high speed bursts)
- One logic family per pin

Programmable Power Supply

- One power supply channel with floating output
- Output voltage and current limit is programmable
- Short circuit monitoring via hardware and software
- Output via software disconnecting/connecting
- Separate force and sense lines
- Thermal shutdown
- Programmable power supplies (UPS) 9V/10A, 24V/5A, 45V/3.5A

Functional Test Modules

MPF (Memory Programming & Flash)

- Flash on board programming
- Memory test (RAM/ROM/μController)
- Parallel and serial test protocols

MTC (ModPack - Timer Counter)

- Measurement of Frequencies, Periods, Pulse Width, Rise & Falling Time as well as events for each circuit
- 4 circuits per module on 8:1 Multiplexer = 32 inputs
- Up to 100MHz

MSM (ModPack - Source and Measurement)

- Measurement and stimulus of voltage and current (AC & DC)
- Signal connectable to internal bus
- Accurate source of voltage and current

MRM (ModPack - Relay Module)

- All-purpose for switching of different signals
- Connection between test item and other hardware

MOC (ModPack - Open Collector)

- Switching of high current relays
- All-purpose for switching of different signals

ICT Analog

Guard Ratio	1:1000
Voltage Source	(AC/DC) 0-100V
Frequency	DC up to 100kHz
Voltage measurement	(AC/DC) up to 100V

- 4 Quadrature measurement
- Diodes, Zener and Transistors in both directions up to max. 100V
- 6-wire reed relays matrix (MUX), max. 1024 analog, non multiplexed pins

Current measurement	(AC/DC) up to 100kHz
Capacitance	1pF to 100mF
Resistance	0.1 to 100MΩ
Inductance	10μH to 10H

Software

Program development

- Automatically through APG
- Via CAD data and C-LINK
- More than 65 different CAD interfaces
- Output for fixture data

Program debugging

Comfortable debugging within interpreter mode

Fault localization

- Layout & Schematics - for paperless service and repair
- Layout - graphical localization of faulty elements
- Schematics - display of current version of schematics diagram
- Fault Catalogue - intelligent catalogue for localization of errors



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