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IQS-600

R&D AND MANUFACTURING TESTING



Optical, transport and datacom testing in a single platform environment

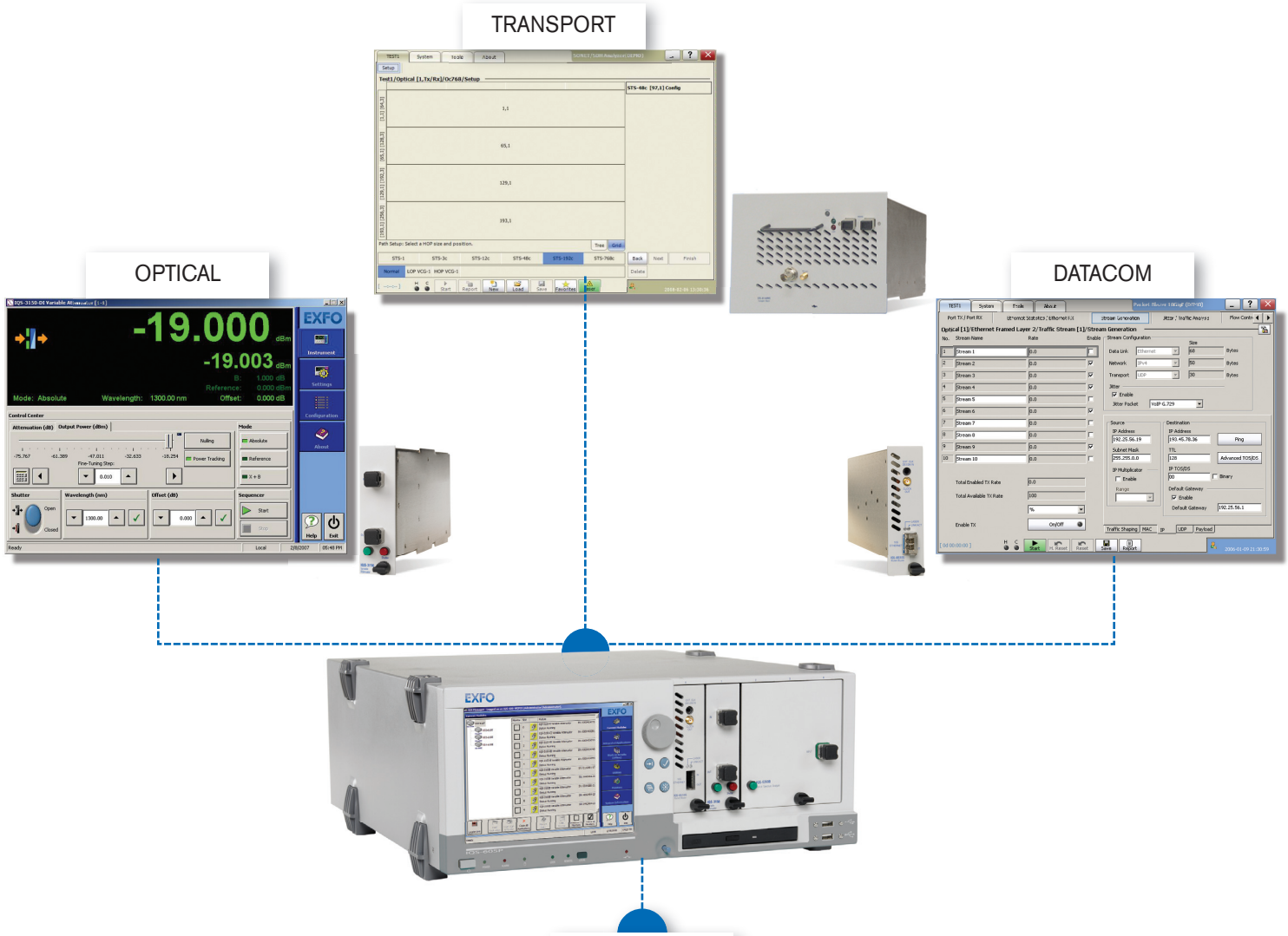
- Open architecture providing the power and flexibility to run automation software and protocol scripts without an external PC
- Multi-user sharing, for minimized CAPEX
- Remote access to test stations through Java, Virtual Network Computing (VNC), Remote Desktop, Web browser, etc.
- RAID 1 option, for increased performance and data reliability

Centralize Your Test Operations

At each step of the design and manufacturing process, systems and components must be tested, thoroughly and efficiently. Thoroughly, as in choosing the right set of test modules for in-depth characterization and truly accurate results. Efficiently, as in integrating optical, transport and datacom test applications in a single platform, speeding up both setup and actual testing.

A true single-box workstation, EXFO's IQS-600 platform delivers all this, plus numerous connectivity and remote control features. Thanks to its Windows-based open architecture and Ethernet connectivity, the fully integrated IQS platform is the heart of your test system. It offers unmatched test automation, minimizing manual intervention and ensuring accurate, repeatable results.

The IQS-600 Integrated Qualification System: multilayer testing efficiency in a single platform environment.



THE RESULT

- A single platform and software environment to work with
- Minimal space in your rackmount
- Unparalleled multilayer testing flexibility

Three Platform Models, One Testing Environment

The IQS-600 platform comes in three models, the IQS-610P and IQS-605P controller units, which feature a dual-core processor, Ethernet ports and optional remote GPIB control, and the IQS-610E expansion unit, which allows you to integrate up to 90 additional test modules into your system. What's more, the IQS-600 platform series uses PC-based software, enabling you to carry out your whole test cycles within a common, highly flexible test environment.



IQS-610P controller unit

- Houses up to 10 test modules
- Ideal for high-volume manufacturing applications
- Comes with all necessary interface ports for external devices: monitor, keyboard, mouse, printer, etc.

IQS-610E expansion unit

- Houses up to 10 test modules per expansion unit
- Allows the system to integrate up to 100 test modules using a single controller unit
- Simplifies test station operation

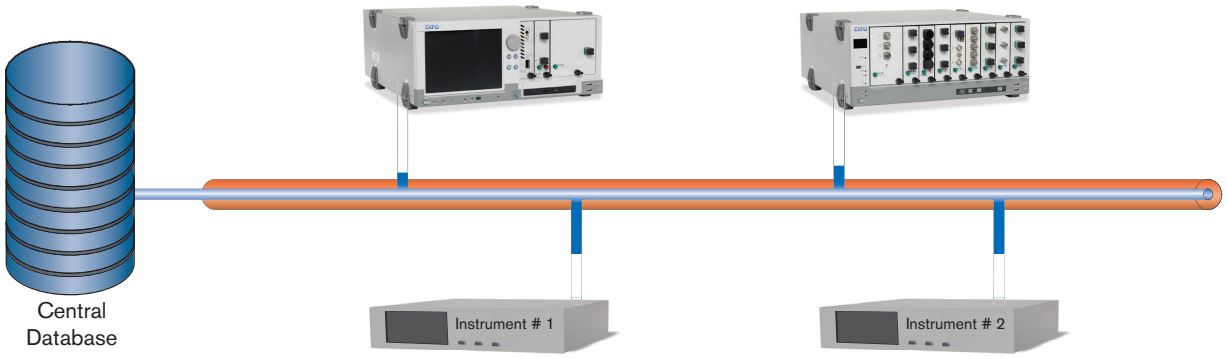
IQS-605P controller unit

- Houses up to 5 test modules
- 8.4 inch TFT touchscreen for simple manual operation
- Designed for R&D, lab and manufacturing applications

Software User-Friendliness and Time-Saving Efficiency

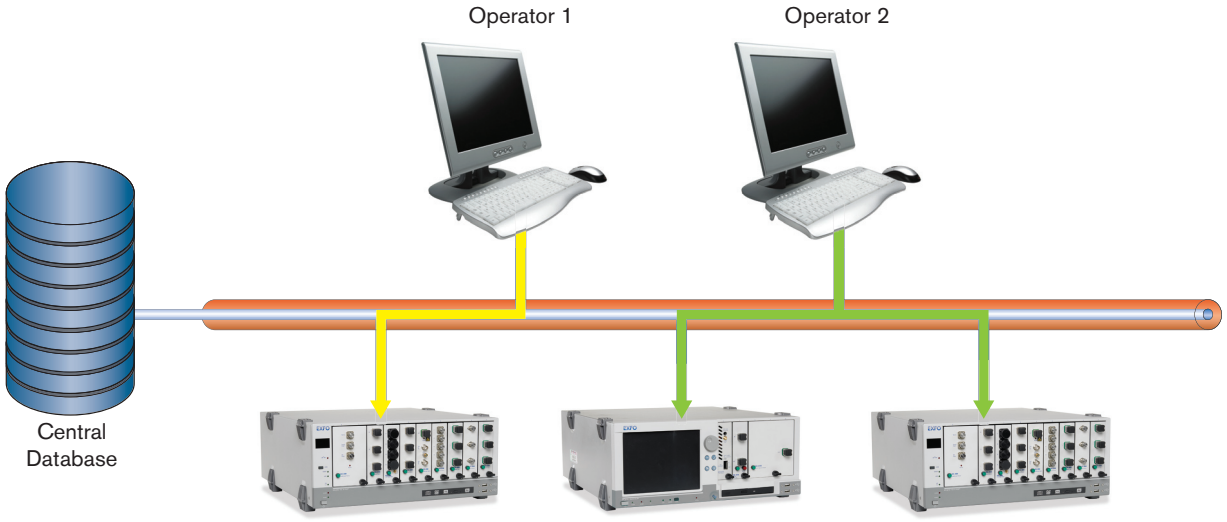
1 Open architecture

The IQS-600 features an open software architecture that enables you to run LabVIEW™ and protocol scripts, providing you with the power and flexibility you need to control your test cycles without requiring an external PC.



2 Multi-user sharing

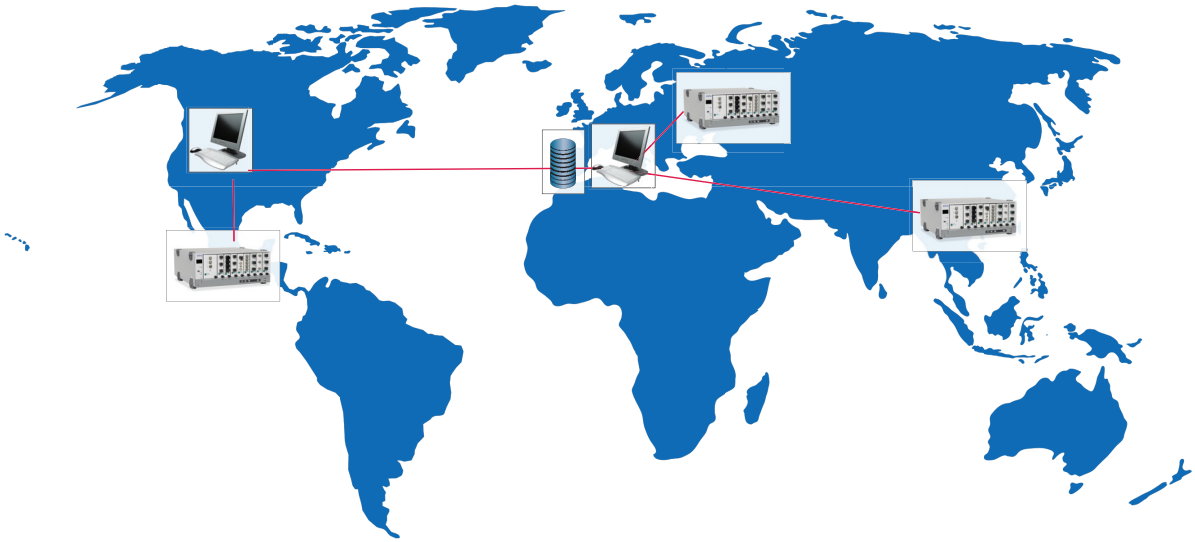
Thanks to Ethernet-based sharing capabilities, the IQS-600 enables multiple users to launch test applications, minimizing both test equipment footprint and CAPEX.



System Management Flexibility and Data Reliability

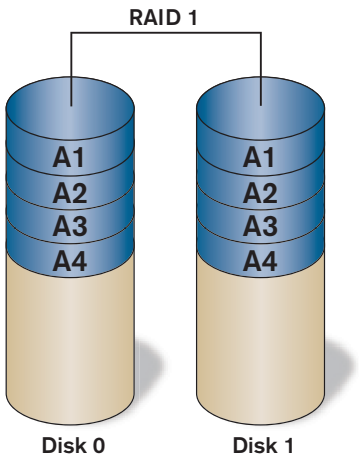
3 Remote monitoring and control

Use remote access devices such as Java, VNC, Remote Desktop or Web browsers to monitor and troubleshoot test applications carried out on an IQS-600 platform located anywhere in the world.



4 RAID 1 option

Add a second hard drive that performs real-time mirroring of all data, delivering increased data reliability and test performance.



A Test System You Can Lean On

With the IQS-600 platform, integration doesn't stop at test applications. It also means packing everything you need to get through your test cycles more easily, day in and day out. Consequently, the IQS-600 was designed to bring user-friendliness, reliability and flexibility to the next level.

User-friendliness

Based on Windows environment, the IQS-600 offers truly intuitive graphical user interfaces (GUI) that simplify module control and system status assessment. Its open architecture enables you to install any Windows-supported software.

Reliability

The IQS-600 uses the proven Windows XP Embedded operating system, as well as industrial-grade PC components that withstand even the toughest manufacturing conditions. Its optional RAID dual hard drive configuration also provides a live backup of all test data, for increased data protection and platform reliability.

Flexibility

Control your IQS-600 platform from any remote location through GPIB, RS-232 or Ethernet connection and run applications developed with any programming environment, from LabVIEW™ and SCPI to ActiveX/DCOM and .NET. Use any PC/Windows device such as foot pedals, bar code readers, PCI data acquisition cards to build more complex test stations requiring more than optical, transport and datacom instruments.

IQS Test Modules and Turnkey Systems

Choose from the widest range of modules on the market. Mix and match modules to build a system that meets any test and measurement challenge.

Modules

- Calibration Power Meter – IQS-1500
- High-Speed Power Meter – IQS-1600
- High-Performance Power Meter – IQS-1700
- Light Source – IQS-2100
- ASE Broadband Source – IQS-2300
- WDM Laser Source – IQS-2400
- Tunable Laser Source – IQS-2600B
- Variable Attenuator – IQS-3150
- Return Loss Meter – IQS-3200
- Polarization Controller – IQS-5100B
- Multi-Wavelength Meter – IQS-5320
- EDFA – IQS-6100
- DSn/PDH and SONET/ SDH Electrical Test Module – IQS-8105 Transport Blazer
- SONET/SDH Test Modules – IQS-8115/8120/8130 Transport Blazer
- Next-Generation Multiservice Test Modules – IQS-8120NGE/8130NGE Power Blazer
- Ethernet Test Module – IQS-8510B Packet Blazer
- 10 Gigabit Ethernet Test Module – IQS-8510G Packet Blazer
- Fibre Channel Test Module – IQS-8520 Packet Blazer SAN
- Optical Switch – IQS-9100
- Optical Test Access Circuit – IQS-9106
- Utility Modules and Couplers – IQS-9600
- Passive Depolarizer – IQS-9700

Turnkey Systems

- Cable Assembly and Component Test Sytem – IQS-12001B
- Optical Calibration System – IQS-12002

SPECIFICATIONS [a]

IQS-605P AND IQS-610P

CPU	Industrial motherboard, dual-core processor, 2 Gbyte memory	
Display (IQS-605P only)	8.4 in touchscreen, 800 x 600 color TFT	
Interfaces	Dual 10/100/1000 Base-T Ethernet	Six USB ports
	Serial RS-232	External keyboard/mouse
	Parallel port	EXFO bus III output
	External monitor port	
Storage	Internal 160 Gbyte hard drive (minimum)	
	Internal DVD+RW	
Power	100 V to 240 V, 50/60 Hz	
Size (H x W x D)		
IQS-610P	177 mm x 439 mm x 495 mm	(7 in x 17 ¼ in 19 ½ in)
IQS-605P	177 mm x 439 mm x 495 mm	(7 in x 17 ¼ in 19 ½ in)
Weight		
IQS-610P	16.6 kg	(36.7 lb)
IQS-605P	16.5 kg	(36.3 lb)
Temperature		
Operating	0 °C to 40 °C	(32 °F to 104 °F)
Storage	–40 °C to 70 °C	(–40 °F to 158 °F)
Relative humidity	0 % to 80 % non-condensing at 40 °C	

IQS-610E

Interface	EXFO bus III input/output	
Power	100 V to 240 V, 50/60 Hz	
Size (H x W x D)	133 mm x 439 mm x 495 mm	(5 ¼ in x 17 ¼ in 19 ½ in)
Weight	13.0 kg	(28.8 lb)
Temperature		
Operating	0 °C to 40 °C	(32 °F to 104 °F)
Storage	–40 °C to 70 °C	(–40 °F to 158 °F)
Relative humidity	0 % to 80 % non-condensing at 40 °C	

Software and Drivers

Operating system	Windows XP Embedded
EXFO software	IQS Manager
Local control	ActiveX/COM library using SCPI commands [a]
	LabVIEW drivers using ActiveX/COM library

Remote control

Ethernet	ActiveX/COM library using SCPI commands [a]
	LabVIEW drivers using ActiveX/COM library
GPIB	SCPI commands or LabVIEW drivers
RS-232	SCPI commands or LabVIEW drivers

Note

a. Compatible with Microsoft .NET "T&M Programmers' Tool Kit".

ACCESSORIES

GP-130	GPIB cable (2 m/6 ft)
GP-2007	USB memory stick (1 Gbyte)
GP-228	0.8 m/2.5 ft interface cable
GP-229	1.5 m/5 ft interface cable
GP-3000	Carrying case for one IQS-500/600 platform (platform only, no space available for modules)
GP-3001	Carrying case for 10 modules (modules only, no space available for platform)
GP-3003	GPIB master/slave card
GP-3004	IQS blank plate
GP-3008 (A-E-I-S-U)	17" LCD video monitor
GP-3013	Rackmount brackets for IQS-500/600 controllers (kit of 2)
GP-3023	Rackmount brackets for IQS-610E (kit of 2)
GP-3024	USB mouse
GP-3025	External USB keyboard

ORDERING INFORMATION

IQS-605P

IQS-605P-XX-XX

- XX = 00 = Standard hard disk
  RHD = RAID 1 second hard disk
- XX = 00 = Without GPIB card
  I3 = GPIB master/slave card

Example : IQS-605P-RHD-I3

IQS-610P

IQS-610P-XX-XX

- XX = 00 = Standard hard disk
  RHD = RAID 1 second hard disk
- XX = 00 = Without GPIB card
  I3 = GPIB master/slave card

Example : IQS-610P-RHD-I3

IQS-610E

IQS-610E-XX

- XX = E0 = 0.3 m/1 ft cable
  E3 = 0.8 m/2.5 ft cable
  E4 = 1.5 m/5 ft cable

Example : IQS-610E-E4



Rugged Handheld Solutions

OPTICAL
- OTDRs
- OLTSs
- Power meters
- Light sources
- Talk sets

COPPER ACCESS
- ADSL/ADSL2+, SHDSL, VDSL test sets
- VoIP and IPTV test sets
- Ethernet test sets
- POTS test sets



Platform-Based Solutions

OPTICAL FIBER
- OTDRs
- OLTSs
- ORL meters
- Variable attenuators

DWDM TEST SYSTEMS
- OSAs
- PMD analyzers
- Chromatic dispersion analyzer

TRANSPORT AND DATACOM
- Next-generation SONET/SDH and OTN testers
- SONET/DSn (DS0 to OC-192) testers
- SDH/PDH (64 kbit/s to STM-64) testers
- T1/T3, E1 testers
- 10/100 Mbit/s and Gigabit Ethernet testers
- Fibre Channel testers
- 10 Gigabit Ethernet testers

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EXFO is certified ISO 9001 and attests to the quality of these products. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. EXFO has made every effort to ensure that the information contained in this specification sheet is accurate. However, we accept no responsibility for any errors or omissions, and we reserve the right to modify design, characteristics and products at any time without obligation. Units of measurement in this document conform to SI standards and practices. In addition, all of EXFO's manufactured products are compliant with the European Union's WEEE directive. For more information, please visit www.EXFO.com/recycle. **Contact EXFO for prices and availability or to obtain the phone number of your local EXFO distributor.**

For the most recent version of this spec sheet, please go to the EXFO website at http://www.EXFO.com/specs
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