IQS-600 Integrated Qualification System

Optical, transport and datacom testing in a single platform environment.

SPEC SHEET

KEY FEATURES

Extensive testing tools for system and transceiver assessment

Multi-user sharing, for minimized CAPEX

Easy, flexible automation and remote access via Ethernet

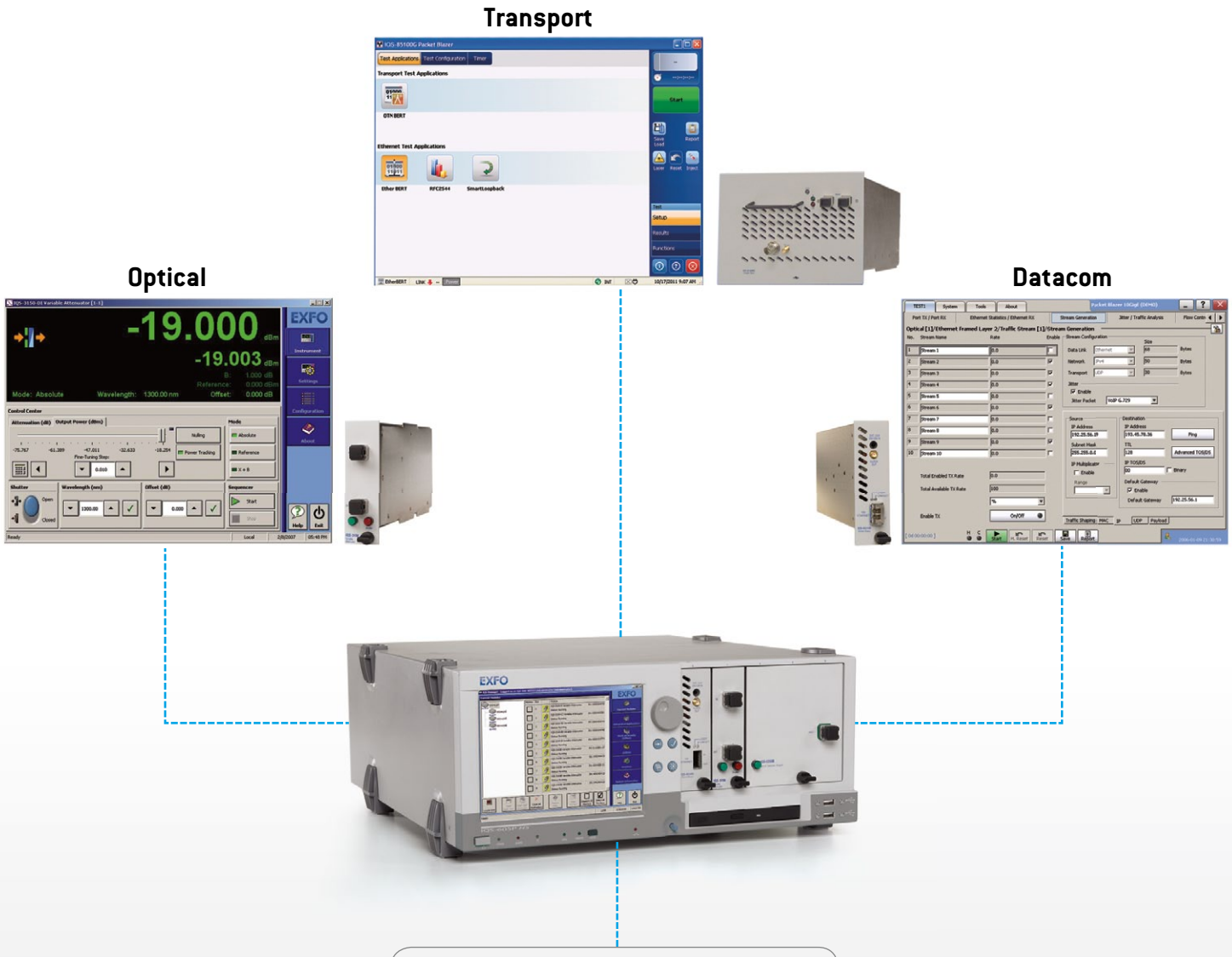
RAID 1 option, for increased performance and data reliability in manufacturing environments

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 into a single platform, speeding up both setup and actual testing.

A true single-box workstation, EXFO's IQS-600 platform delivers all this, plus a number of 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-HS and IQS-605P-HS controller units, which feature a dual-core processor, Ethernet ports and optional remote GPIB control, and the IQS-610E-HS expansion unit, which allows you to integrate up to 90 additional test modules into your system. Now supporting EXFO's Bus III, the new -HS models allow faster communication with modules. As a result, firmware upgrade time is greatly reduced.

IQS-610P-HS 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-HS 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-HS controller unit

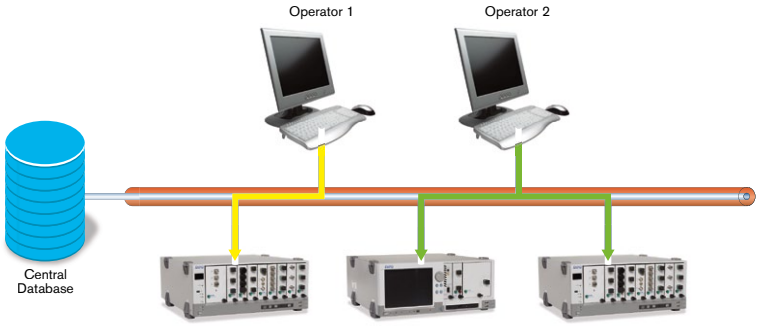
- Houses up to 5 test modules
- 8.4-inch TFT touchscreen for simple manual operation
- Designed for R&D, lab and manufacturing applications

SOFTWARE USER-FRIENDLINESS AND TIME-SAVING EFFICIENCY

1

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.



2

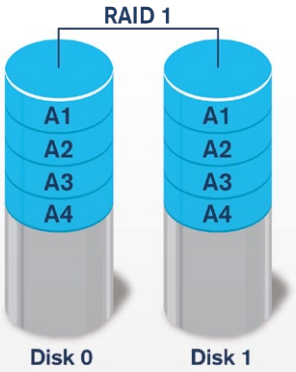
Automation and remote access

Easily automate your test system, and boost speed and performance using LabVIEW 12 drivers available for all IQS modules, or TCL libraries available for transport and datacom modules. Plus, access your IQS-600 platform remotely—from anywhere in the world—using VNC, Remote Desktop or Web browsers to monitor and troubleshoot your test applications.

3

RAID 1 option

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



OPTICAL, TRANSPORT AND DATACOM TESTING APPLICATIONS—SUMMARY CHART

■ SYSTEMS AND TRANSCEIVERS
■ CALIBRATION

		EDFAs, SOAs, Raman Devices	Tx/Rx	Metro/Ethernet Devices	SONET/SDH Transport Devices	OTN Transport Devices	Multiservice Transport Devices	PDH/DSn	Ethernet-over-T1/E1	40/100 GigE Metro/Long-Haul Networks	40/100 GigE CFP Characterization	XLAUI/CAUI Characterization	Layer 1 PCS Characterization	Layer 2/3 Ethernet Testing	OTU3/OTU4 Testing (as per ITU-T G.709)	Calibration
Ethernet testing and fibre channel analyzers	IQS-88100NGE/88100G Packet Blazer		●	●	●	●	●			●	●	●	●	●	●	
	IQS-8830NGE Packet Blazer		●	●	●	●	●	●					●			
	IQS-85100G Packet Blazer		●	●		●	●			●	●	●	●	●	●	
	IQS-8525/8535 Packet Blazer		●	●			●		●							
	IQS-8510G Packet Blazer		●	●			●							●		
	IQS-8510B Packet Blazer		●	●			●		●					●		
DSn/PDH and legacy SONET/SDH testing	IQS-8805 Power Blazer		●		●			●								
Synchronization testing	SyncWatch-110			●										●		
Power meters	IQS-1500															●
	IQS-1600	●	●	●	●		●	●		●						●
	IQS-1700	●	●	●	●		●	●								
	OHS-1700	●	●	●	●		●	●								
	PM-1100	●	●	●	●		●	●								
	PM-1600	●	●	●	●		●	●		●						●
Light sources and amplifiers	IQS-2400	●	●	●	●		●	●		●	●					●
	IQS-2600B									●						
	IQS-2800	●	●		●					●						●
	FLS-2600B									●						
	FLS-2800	●	●		●		●			●						
Variable Attenuators	IQS-3150	●	●	●	●		●	●		●	●					●
	FVA-3150	●	●	●	●		●	●		●	●					●
Polarization Analysis	EM-550 and EM-551															●
Switch and Utility modules	IQS-9600	●	●	●	●		●	●		●	●					●
	IQS-9100	●	●	●	●		●	●		●	●					
	IQS-9100B	●	●	●	●	●	●	●		●	●					
	MXS-9100	●	●	●	●	●	●	●		●	●					
	PSO-100 Series		●							●						
	PSO-100		●							●						
Spectral Analysis	IQS-5240S/BP	●	●	●	●	●	●			●	●					

A TEST SYSTEM YOU CAN RELY 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 the Windows OS, the IQS-600 offers truly intuitive graphical user interfaces (GUI) that simplify module control and system status assessment. Its open architecture allows you to install any Windows-compatible software.

Reliability

The IQS-600 uses the new Windows 8.1 Pro OS, 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™, TCL 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.

SPECIFICATIONS

IQS-605P-HS and IQS-610P-HS	
CPU	Industrial motherboard, dual-core processor, 2 GB RAM
Display (IQS-605P-HS only)	8.4 in touchscreen, 800 x 600 color TFT
Interfaces	Dual 10/100/1000 Base-T Ethernet Serial RS-232 Parallel port External monitor port Six USB ports External keyboard/mouse EXFO bus III output
Power	⏦ 100 V to 240 V; 50/60 Hz; 550 VA
Storage	Internal 160 GB hard drive (minimum) Internal DVD+RW
Size (H x W x D) IQS-610P-HS IQS-605P-HS	 177 mm x 439 mm x 495 mm (7 in x 17 ¼ in 19 ½ in) 177 mm x 439 mm x 495 mm (7 in x 17 ¼ in 19 ½ in)
Weight IQS-610P-HS IQS-605P-HS	 16.6 kg (36.5 lb) 16.4 kg (36.2 lb)
Temperature Operating Storage	 0 °C to 40 °C (32 °F to 104 °F) –40 °C to 70 °C (–40 °F to 158 °F)
Relative humidity	0 % to 80 % non-condensing at 40 °C
IQS-610E-HS	
Interface	EXFO bus III input/output
Power	⏦ 100 V to 240 V; 50/60 Hz; 550 VA
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	13.1 kg (28.8 lb)
Temperature Operating Storage	 0 °C to 40 °C (32 °F to 104 °F) –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 [b]	Windows 8.1 Pro
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

ACCESSORIES

GP-130	GPIB cable (2 m/6 ft)	GP-3004	IQS blank plate
GP-228	0.8 m/2.5 ft interface cable	GP-3013	Rackmount brackets for IQS-600 controllers (kit of 2)
GP-229	1.5 m/5 ft interface cable	GP-3023	Rackmount brackets for IQS-610E (kit of 2)
GP-3000	Carrying case for one IQS-600 platform (platform only, no space available for modules)	GP-3024	USB mouse
GP-3001	Carrying case for 10 modules (modules only, no space available for platform)	GP-3025	External USB keyboard
GP-3003	GPIB master/slave card		

Notes

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

b. Some IQS-605P functionnalities will not be supported with Windows 8.1 Pro.

ORDERING INFORMATION

IQS-605P-HS-XX-XX

Hard disk
00 = Standard hard disk
RHD = RAID 1 second hard disk

GPIB card
00 = Without GPIB card
I3 = GPIB master/slave card

Example: IQS-605P-HS-RHD-I3

IQS-610P-HS-XX-XX

Hard disk
00 = Standard hard disk
RHD = RAID 1 second hard disk

GPIB card
00 = Without GPIB card
I3 = GPIB master/slave card

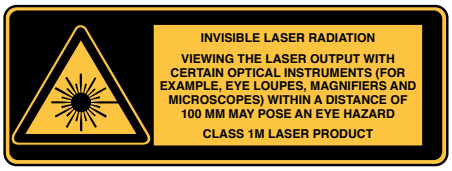
Example: IQS-610P-HS-RHD-I3

IQS-610E-HS-XX

EXFO BUSII cable
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-HS-E4

LASER SAFETY



EXFO Headquarters > Tel.: +1 418 683-0211 | Toll-free: +1 800 663-3936 (USA and Canada) | Fax: +1 418 683-2170 | info@EXFO.com | **www.EXFO.com**

EXFO serves over 2000 customers in more than 100 countries. To find your local office contact details, please go to **www.EXFO.com/contact**.

SPIQS600.6AN

Printed in Canada 13/07