

Control and Test & Measurement Solutions for Quantum Optics

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EPIC Online Quantum Technology Meeting
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World's Premier Measurement Company

MARC ALMENDROS - KEYSIGHT QUANTUM SOLUTIONS



1939–1998:
Hewlett-
Packard years



1999–2013:
Agilent
Technologies years



2014+:
Keysight years

Keysight's core competences match quantum engineering needs

- 75+ years of electronic excellence
- World-class RF/microwave and ASIC expertise
- Outstanding Digital Signal Processing know-how
- Quantum Physics Know-how
- Comprehensive software tools
- Worldwide customer service

Portfolio for
Quantum
Applications

Quantum Software Solutions

Modular BB ARBs & Digitizers

Wideband ARBs & Digitizers

Qubit control systems

Desktop test instruments

Source Measurement Units

Optical instruments

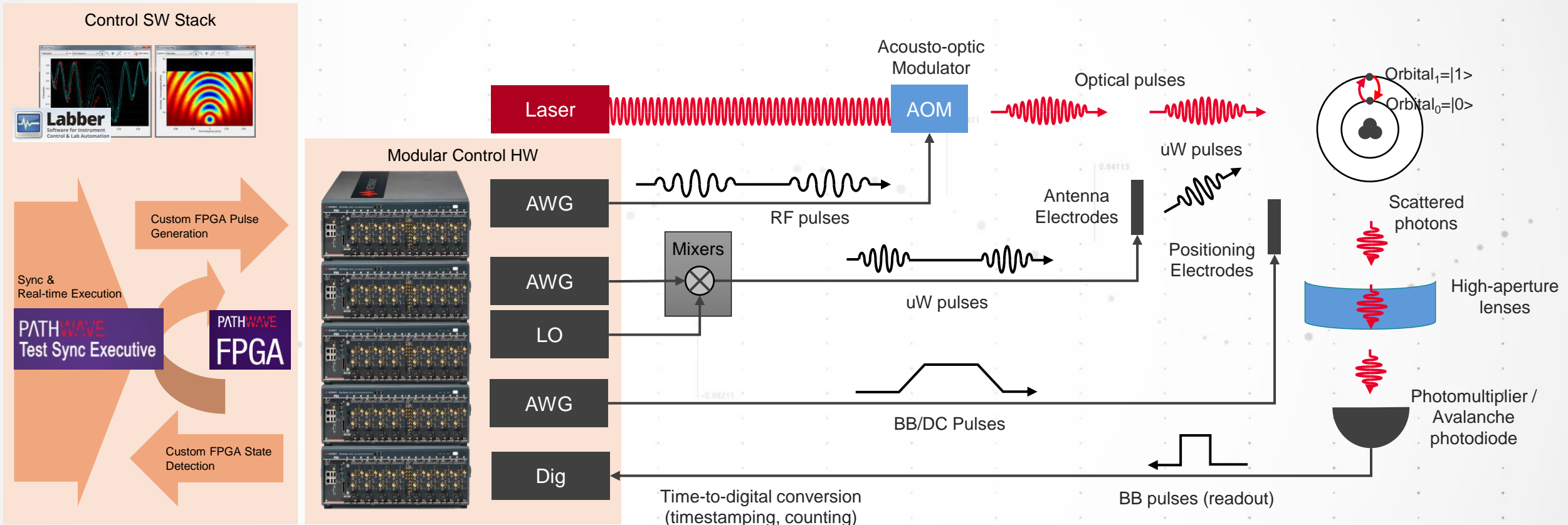
Parametric test instruments

Software Solutions:
EDA software, PathWave FPGA,
and Labber

Traditional test and measurement solutions

Control System for Computing, Comms and Sensing

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Control of 100+ qubits

Photonic Test Solutions

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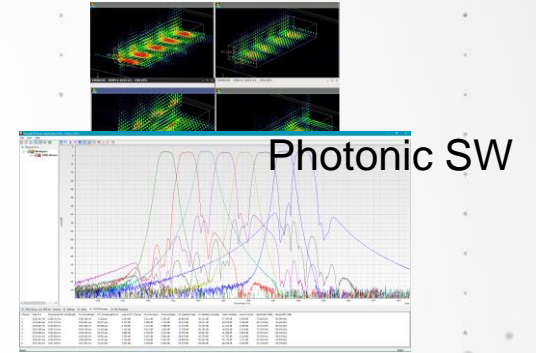
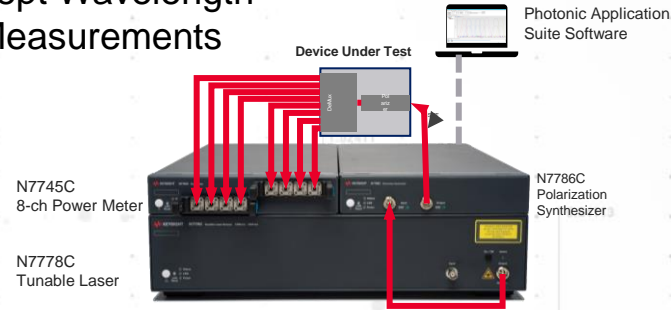


Optical Sources
1240-1650nm



Signal Analysis
Multi Wavelength Meters
700-1650nm

Swept Wavelength Measurements



Optoelectronics
S-Parameters



Polarization Analyzers,
Scramblers/Stabilizers,
Synthesizers

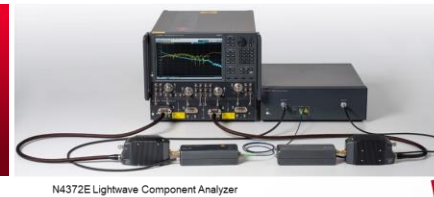


Power sensors, optical heads,
attenuators, switches, etc.

Keysight Measurement Solution for Integrated Photonics

RF Electro-Optical Measurement

N4372E Lightwave
Component
Analyzer
110 GHz



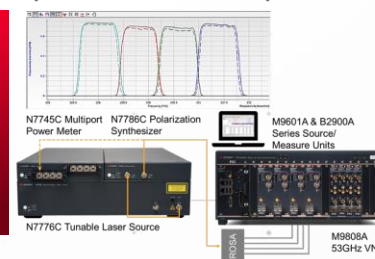
Edge & Surface
Single & Fiber Array
Optical & RF & DC
Probes



KS8004A
PathWave Test
Automation
Instrument &
Probing

Optical and DC Electro-Optical Measurement

N770010xC
Photonic
Application Suite
1240 - 1650 nm
Polarization
Resolved O/O, E/O,
O/E

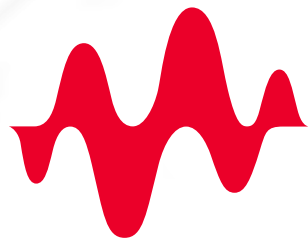


Wafer & Die Probing and Alignment



Keysight partnering with
FormFactor / Cascade
Microtec

Other prober solutions
are possible



KEYSIGHT
TECHNOLOGIES

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