

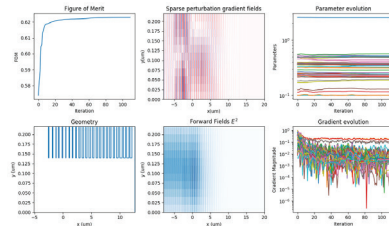
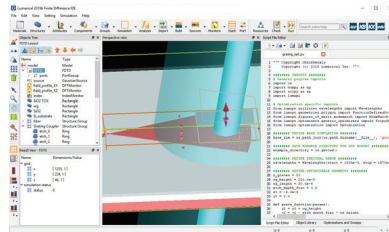
Automation API

for Python and Lumerical Script

Enabling Lumerical tools to interact with each other, third-party applications, and a rich set of Python content.

- Enable Photonic Inverse Design to automatically discover optimal geometries for desired target performance
- Use a single file to run optical, thermal, and electrical simulations, and post-process the data in Python
- Build your own in-house integrations and applications
- An extensive set of Python libraries for numerical analysis, visualization, optimization, and more
- Find rich open-source projects within the Python community

www.lumerical.com/products/aapi



PIC Design • PDK Development • EDA Integration
Optical Simulation • Electrical Simulation • Thermal Simulation

Photonic Component & Circuit Design Software

SYSTEM Suite

for Photonic Integrated Circuit Simulation

INTERCONNECT Photonic Integrated Circuit Simulation
CML Compiler Photonic Model Development Kit
CML Publisher+ CML License Protection Option
Laser Library Advanced Laser Modeling Extension
System Library Advanced System Modeling Extension
Photonic Verilog-A Platform

DEVICE Suite

for Photonic Multiphysics Simulation

FDTD 3D Electromagnetic Simulator
MODE Waveguide Simulator
CHARGE 3D Charge Transport Simulator
HEAT 3D Heat Transport Simulator
DGTD 3D Electromagnetic Simulator
FEEM Waveguide Simulator
MQW Quantum Well Gain Simulator
STACK Optical Multilayer Simulator

HPC & Cloud

FDTD

FDTD Accelerator
FDTD Burst Pack

MODE

MODE Accelerator

Interoperability Products

Automation API

Python
Lumerical Script

Tool Integrations

IPKISS Interoperability
KLayout Interoperability
Matlab Interoperability
Tanner Interoperability
Virtuoso ADE Interoperability
Zemax Interoperability

Foundry Support

AIM Photonics Si-Ph Reader
AMF Reader
CompoundTek Reader
HHI Reader
imec Reader
SMART Reader
TowerJazz Reader