

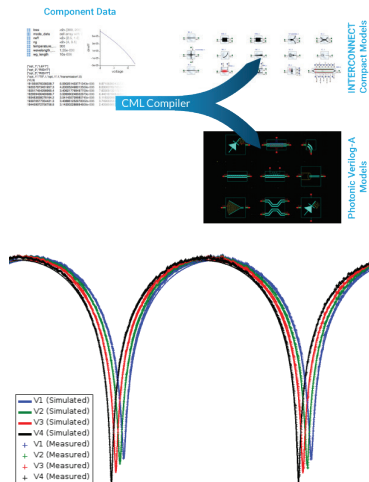
# CML Compiler

## Photonic Model Development Kit

Proven, automated, cross-simulator photonic compact model library (CML) generation.

- Automated generate version-controlled compact model libraries
- Generated from single data source of characterized measurements or 3D simulation results
- Generate IP protected INTERCONNECT and Verilog-A models, and co-simulate with third-party EDA simulation tools
- Structured input (.json and .mat formats) with template and data validation
- Support for generating statistical models for MC and corner analysis

[www.lumerical.com/products/cml-compiler](http://www.lumerical.com/products/cml-compiler)



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