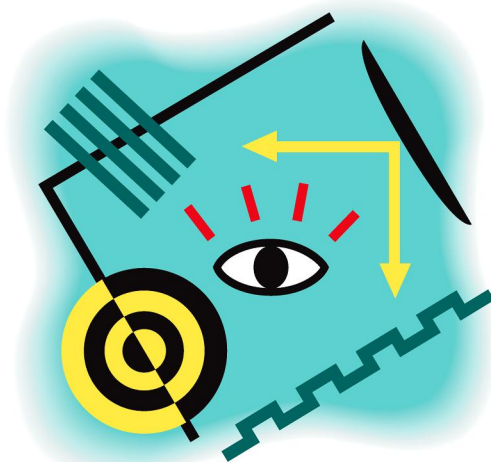


Dynamic Gain Equalizer



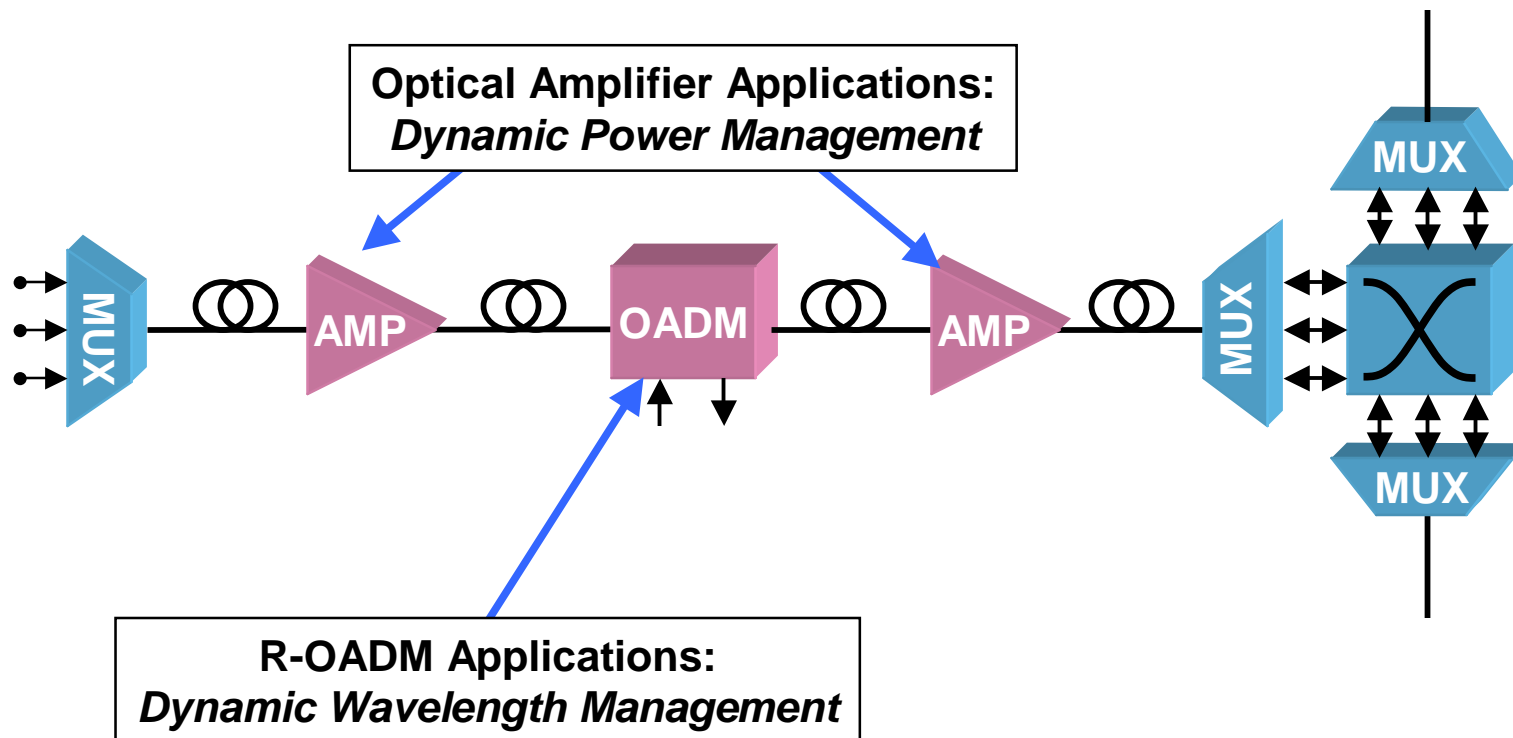
**SILICON
LIGHT
MACHINES**

A **SCREEN** COMPANY

Applications in Optical Networks

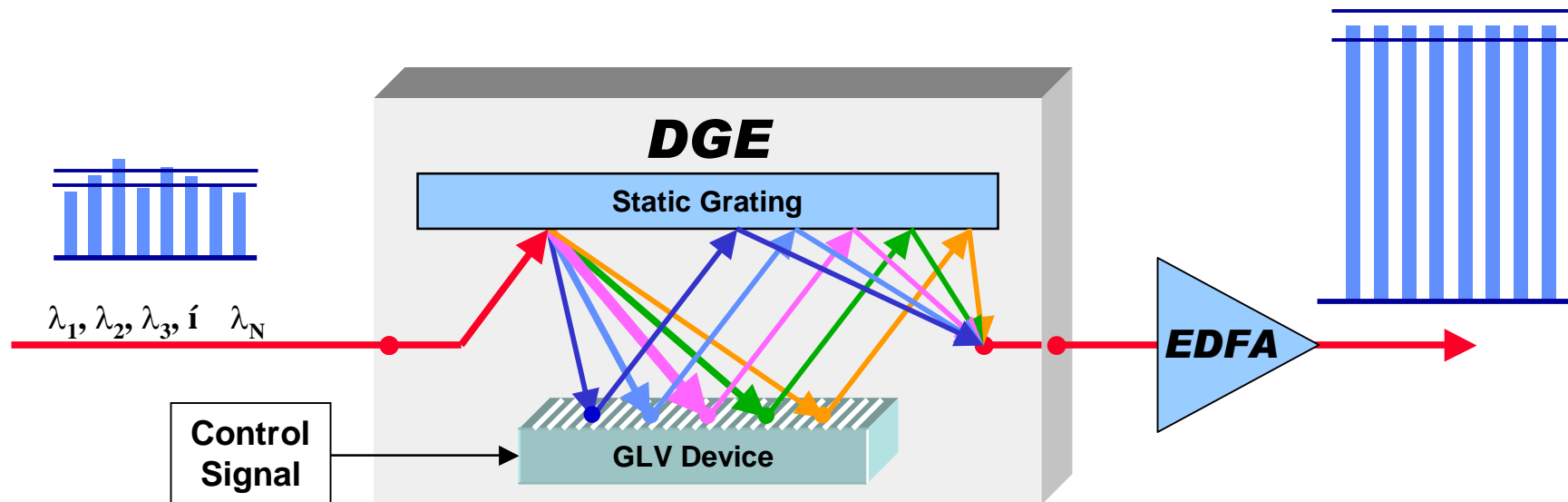


Target applications for GLV-based products in optical networks to dynamically manage DWDM channels.



Dynamic Gain Equalizer

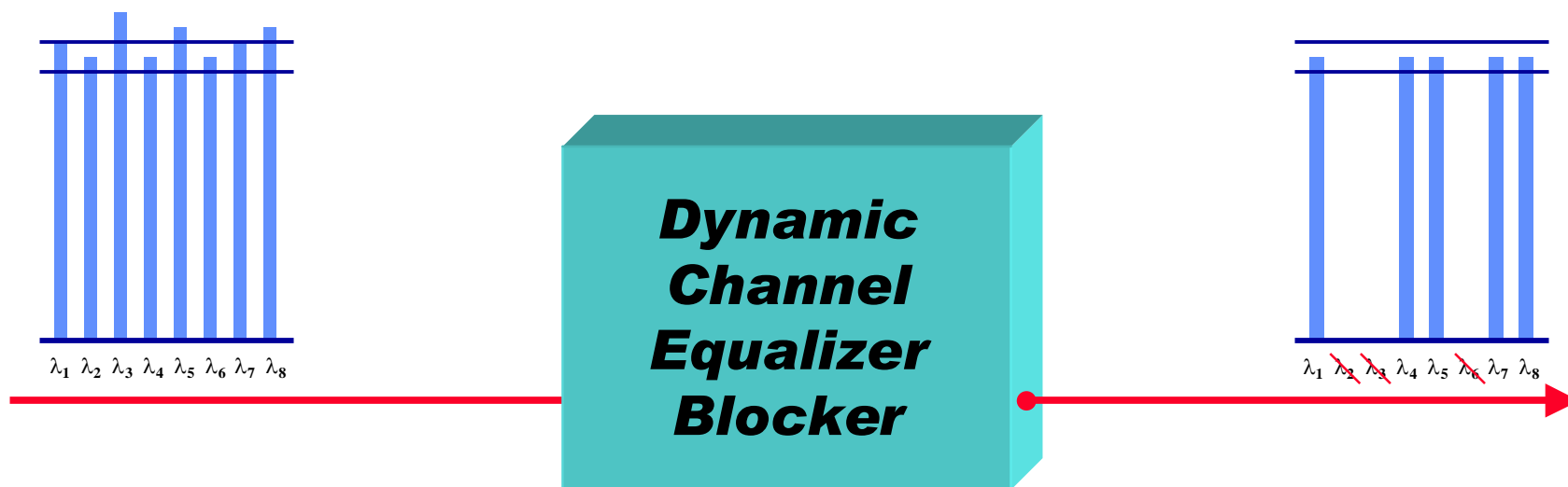
Principle of Operation



- **Flattest DWDM Power Profile**
 - Improve your OSNR
 - Reduce your system cost
 - Extend the reach of your DWDM system
- **Single Product: Any Channel Spacing & Any Bit-Rate**
 - Flexibly manage the DWDM spectrum
 - Future proof
 - Reduce your inventory and spares cost
- **Proven technology from a proven supplier**

Dynamic Channel Equalizer/ Blocker

Product Description



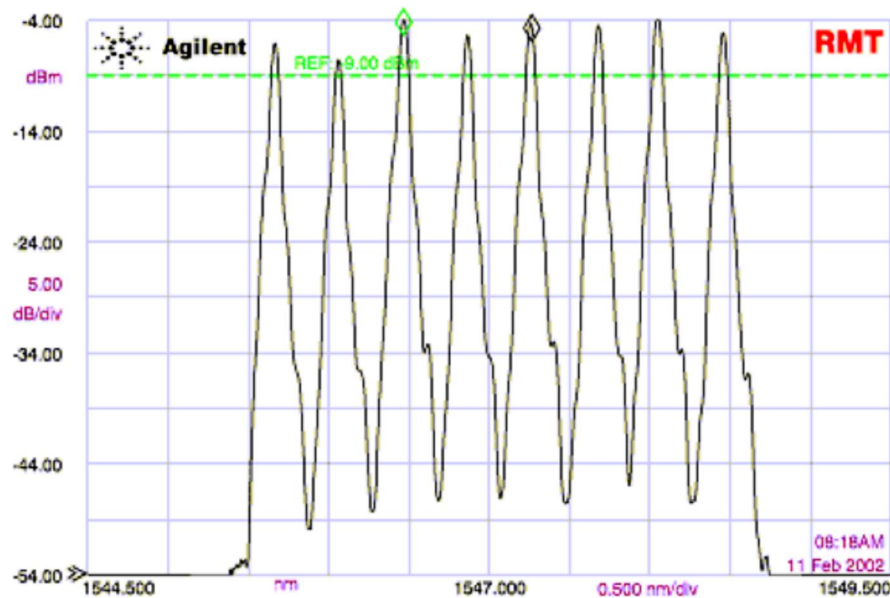
- ➔ **High Extinction Ratio:** Blocks channels to > 30 dB
- ➔ **Arbitrary Configuration:** Block any single channel or groups
- ➔ **Block AND Equalize:** GLV device provides both functions
- ➔ **Robust & Reliable:** Technology proven over 5 trillion cycles

Prototype Results

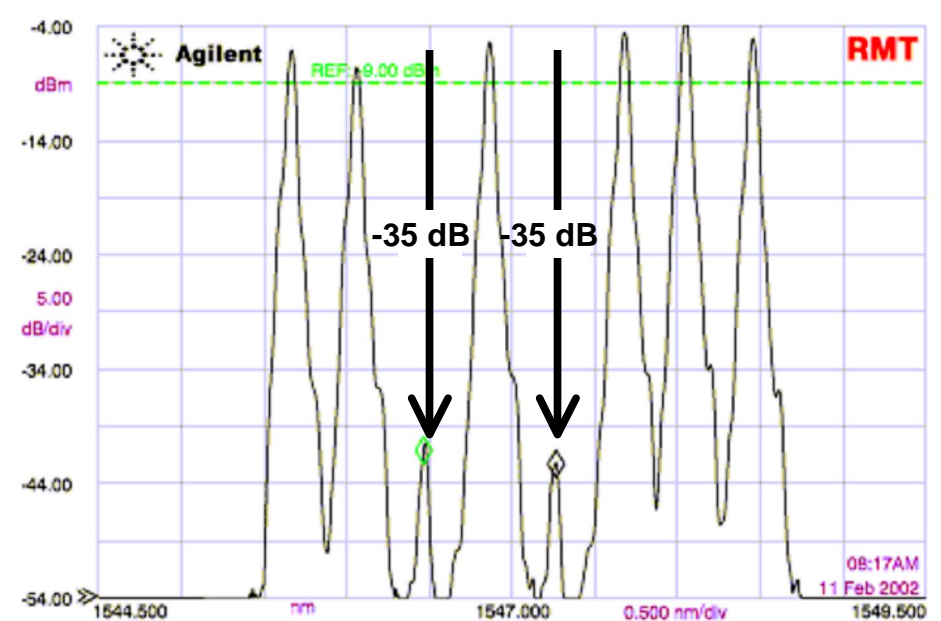
50 GHz Channel Spacing



PASS ALL CHANNELS

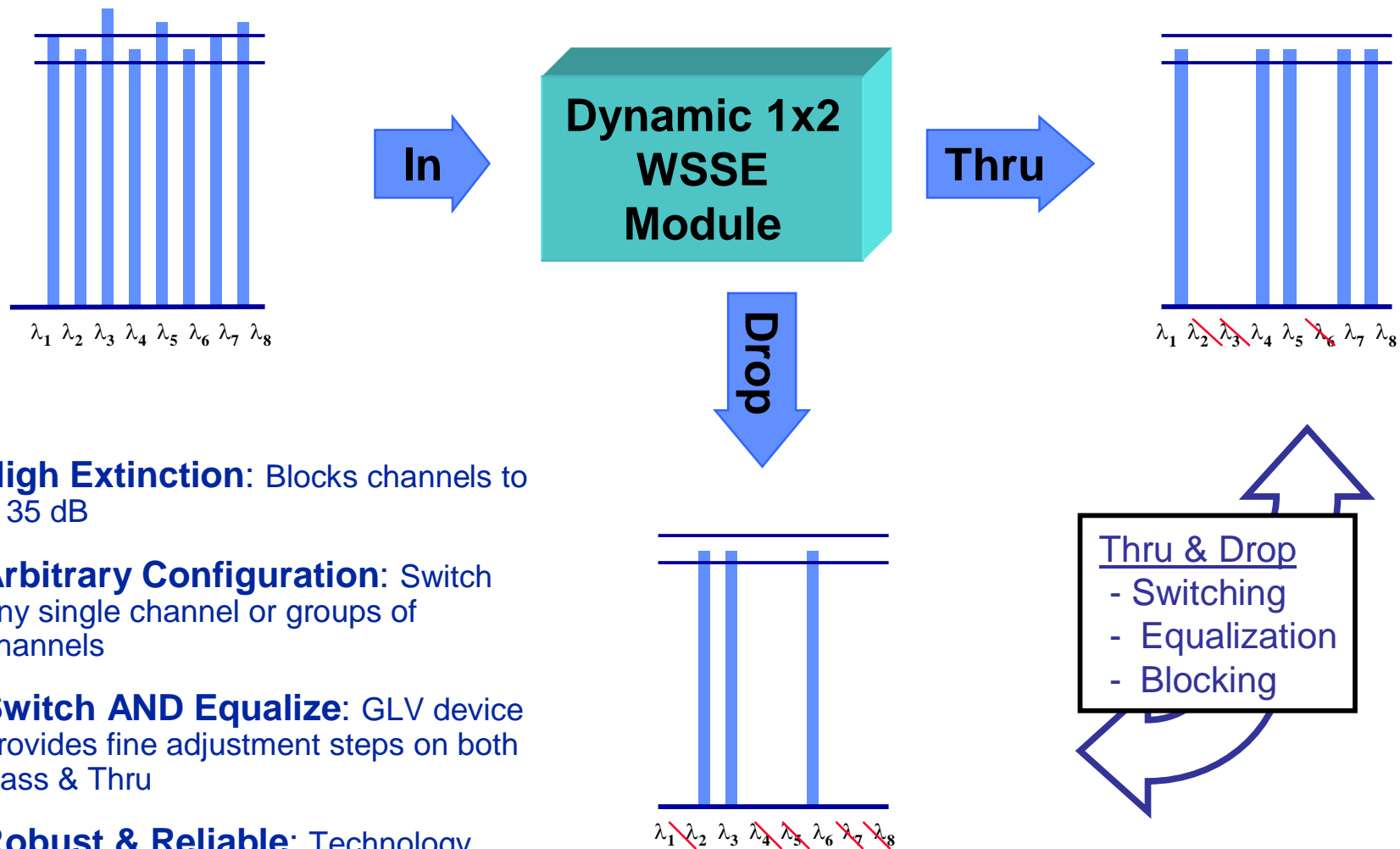


TWO CHANNEL DROP



Dynamic 1x2 WSSE

Drop and Equalization Characteristics



- ➔ **High Extinction:** Blocks channels to > 35 dB
- ➔ **Arbitrary Configuration:** Switch any single channel or groups of channels
- ➔ **Switch AND Equalize:** GLV device provides fine adjustment steps on both Pass & Thru
- ➔ **Robust & Reliable:** Technology proven over 5 trillion cycles

Prototype 100 GHz E Switched AND Equalized

