Dynamic Gain Equalizer
Target applications for GLV–based products in optical networks to dynamically manage DWDM channels.

**Applications in Optical Networks**

**Optical Amplifier Applications:**
*Dynamic Power Management*

**R-OADM Applications:**
*Dynamic Wavelength Management*
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

-35 dB
-35 dB
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 – Switched AND Equalized

Insertion loss (Thru) 6dB
Extinction ratio 30dB
100GHz channel spacing