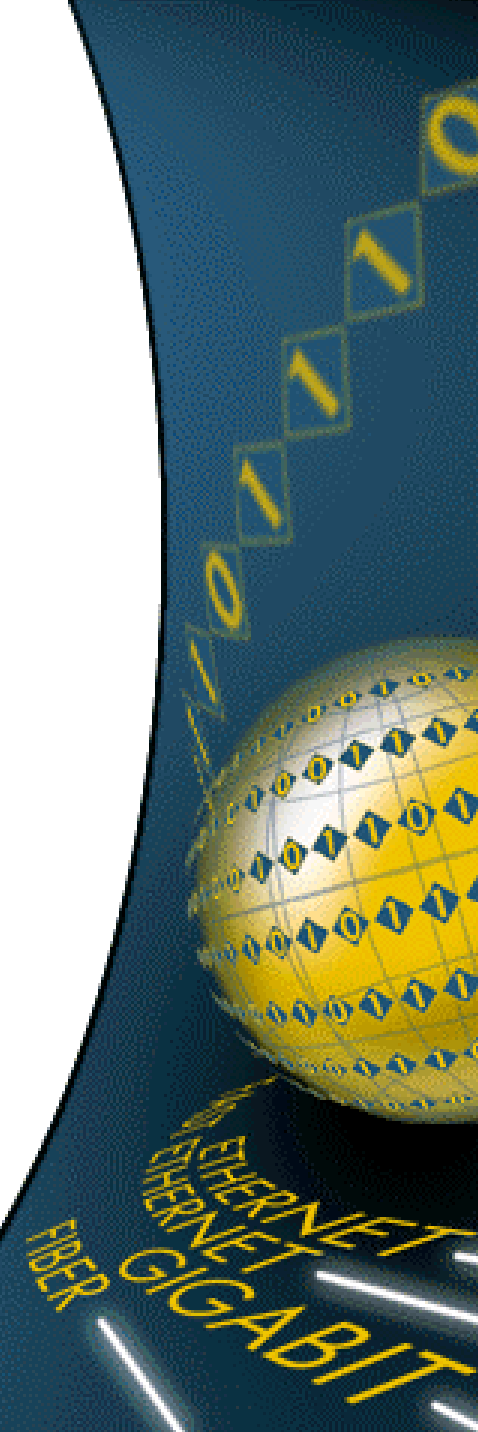


*New Generation of WDM System
WD1004*

Allied Telesyn International Corp.



What is WDM System

- WDM : Wavelength Division Multiplexing
- Multiplexing technology by changing the wavelength
- Key technology for future optical network
- TDM capacity : Up to 40Gbps
- WDM capacity : Can go to several “Tera”bps
- Deployed for carrier’s backbone network now
(PDH→SDH→SDH+WDM→IP over WDM)



Advantage of WDM System

- To avoid additional fiber installation

- Upgrade the capacity of single fiber

For example 100Mbps FDDI → 10/20/40 Gbps Loop Backbone

- Longer transmission distance

For example Fiber Channel 10Km → 40 to 50Km (SMF) w/o Amp

- Protocol-independent

WDM supports Ethernet, Fast Ethernet, Gigabit Ethernet, FDDI, Fiber Channel, ESCON, OC-3, OC-12, OC-48



WDM1004 Product Summary - 1

- Local port is designed based on GBIC module basis and 4 ports
Can be incorporated into base unit at user's option
- Local port is equipped with Re-timing, Re-shaping, and Re-generating which brings high quality data transmission
- Single fiber with full-duplex method enables redundancy
Function using another fiber in case of signal degradation
(Each local port module support hot-swappability)
- Hot swappable power supply for redundancy to achieve high reliability

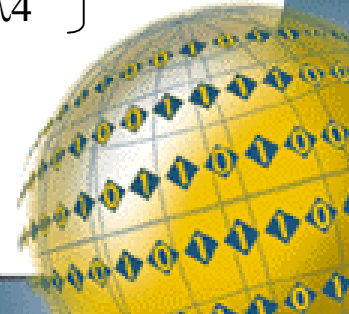
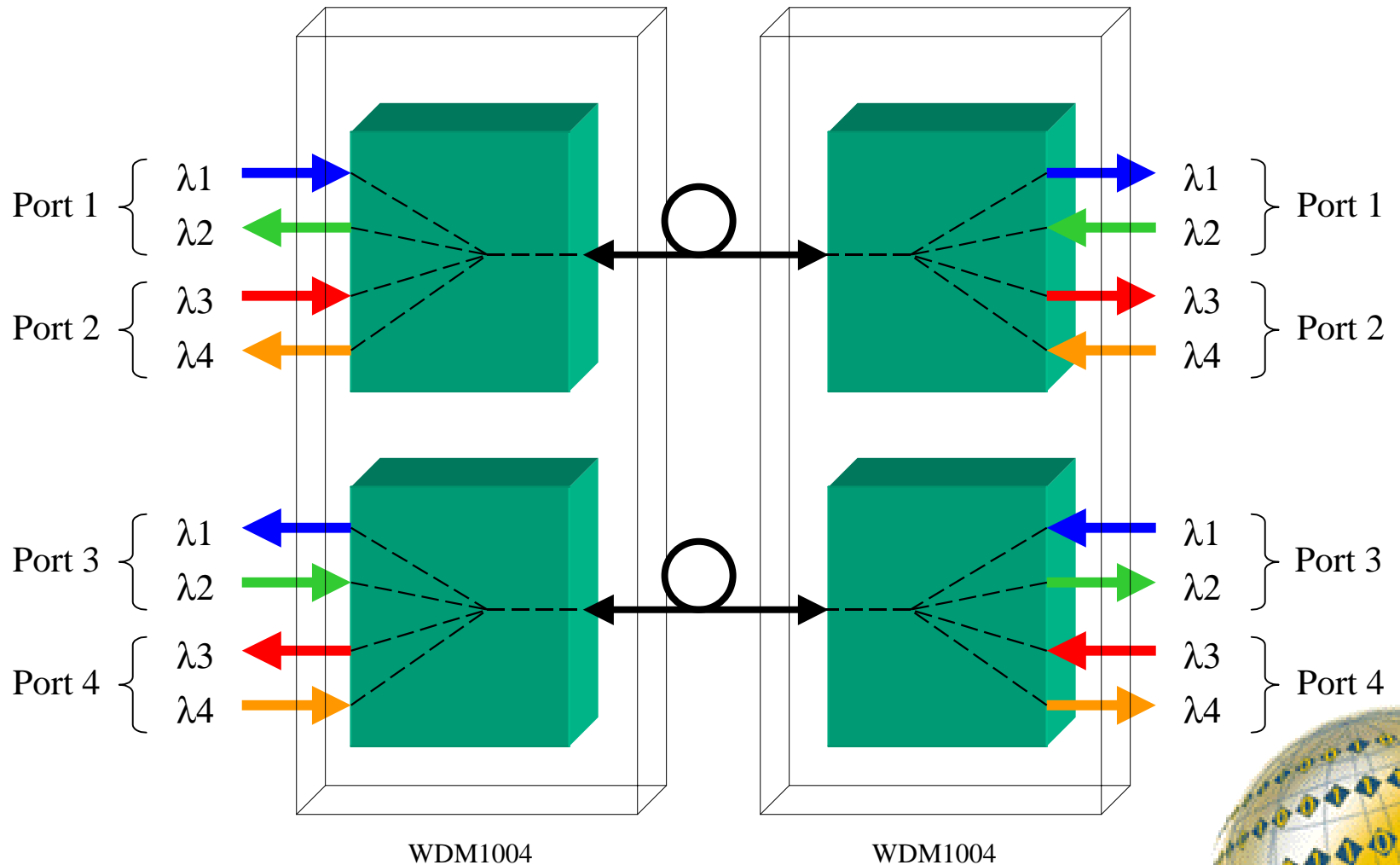


WDM1004 Product Summary - 2

- Web-base SNMP manager
- Remote (Long-haul) ports to support single mode fiber (SMF)
Up to 35Km
- Original WDM technology
 - competitive price and high performance
- AC and DC –48V Power Supply is Available

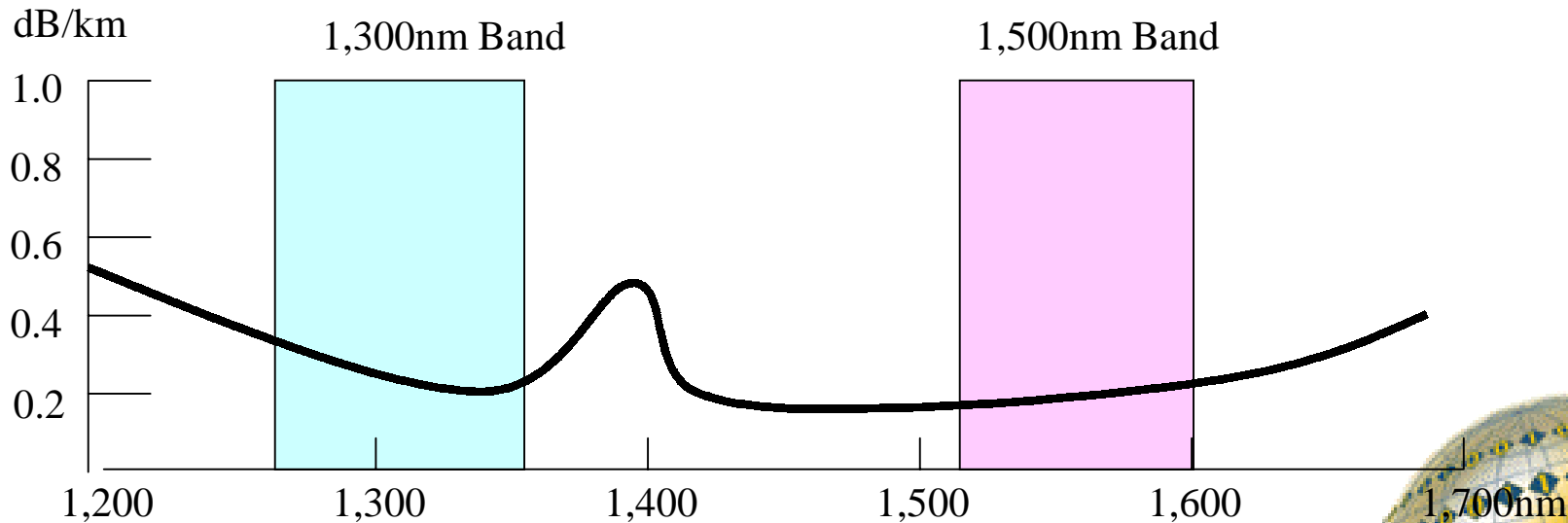


WDM1004 (Single Fiber with Full-duplex)

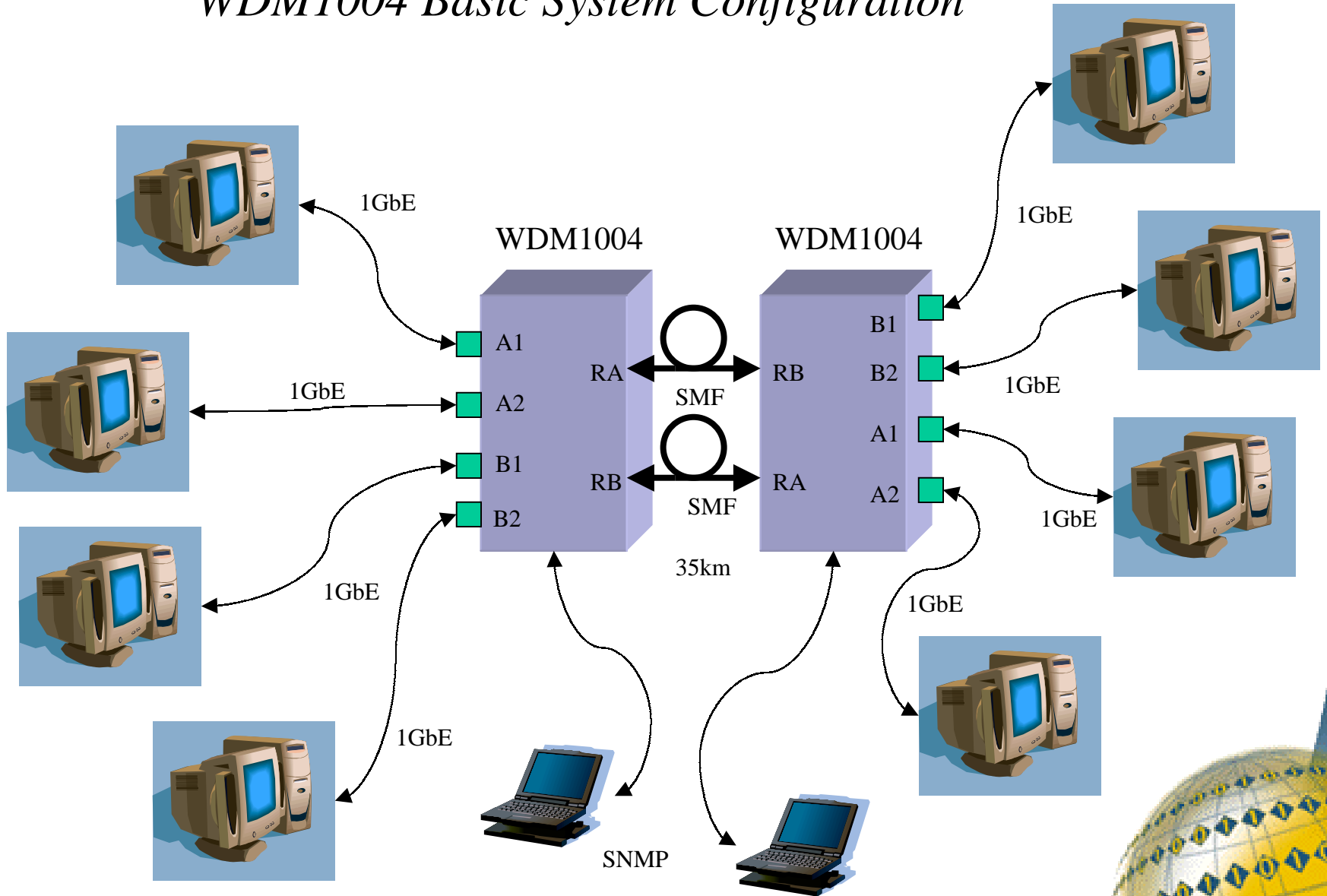


Wavelength Band used in WDM1000 series

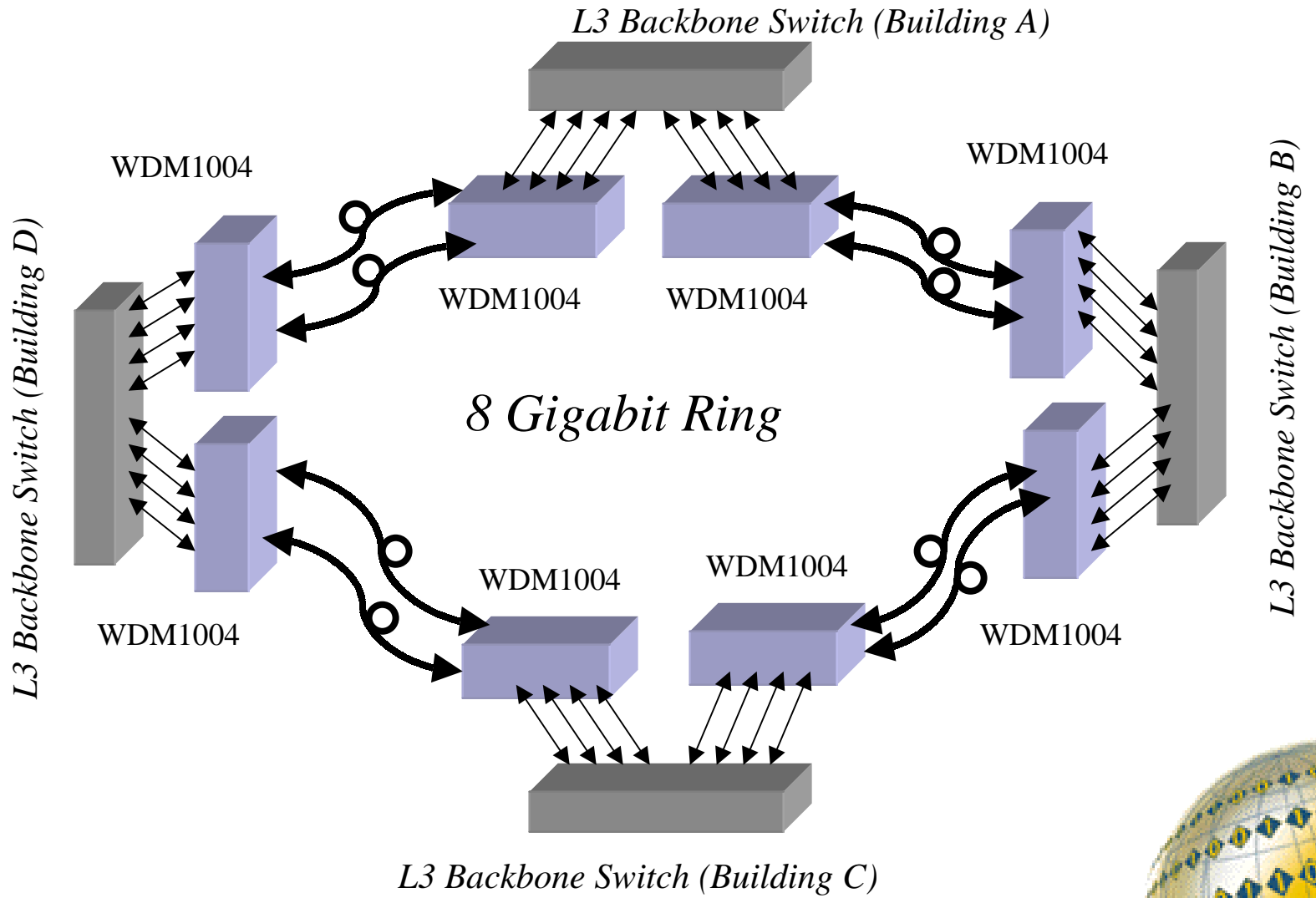
- WDM1004 : 1,300nm 4 λ
- WDM1010 : 1,300 & 1,500nm 10 λ
- WDM1016 : 1,300 & 1,500nm 16 λ



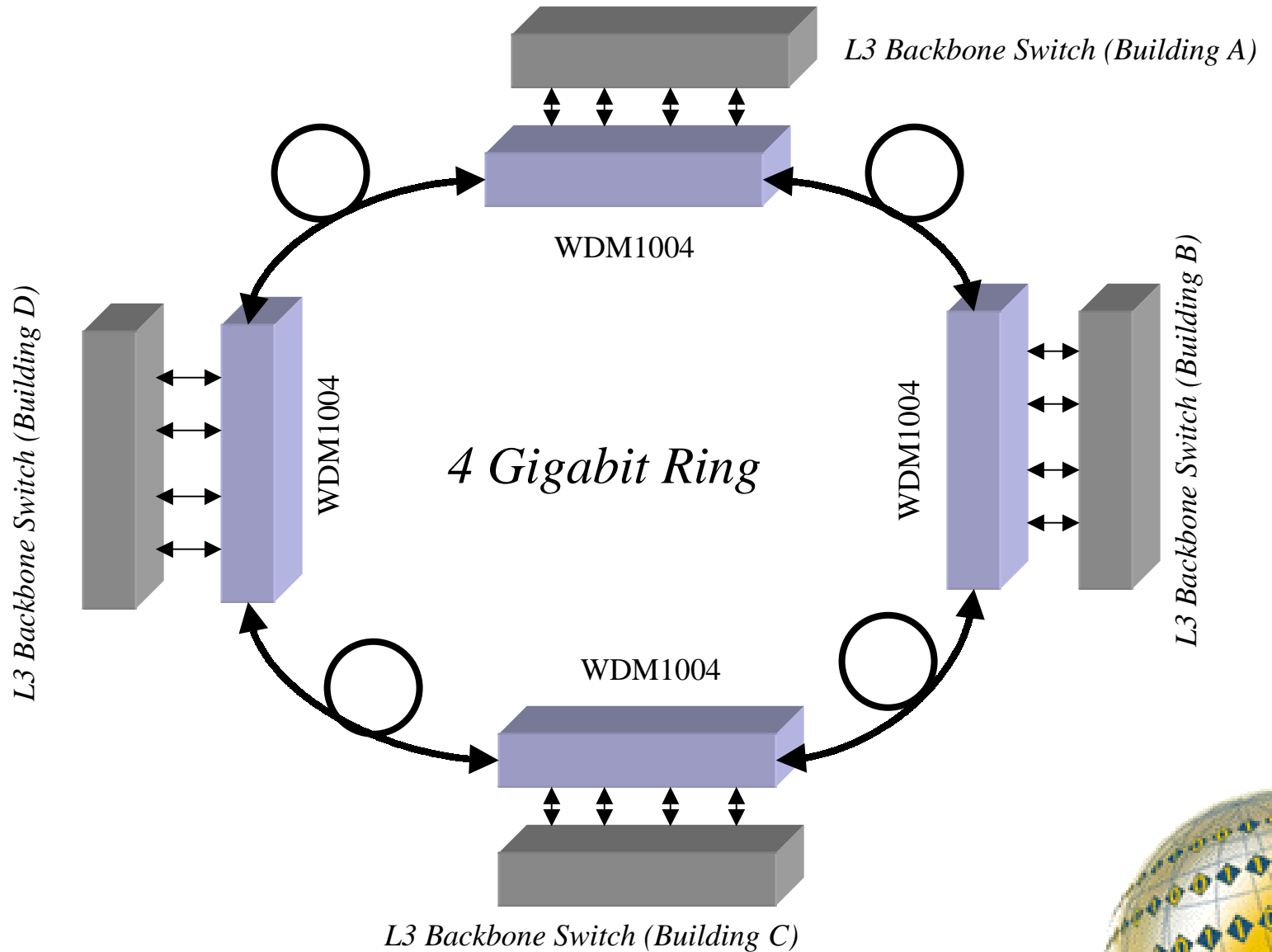
WDM1004 Basic System Configuration



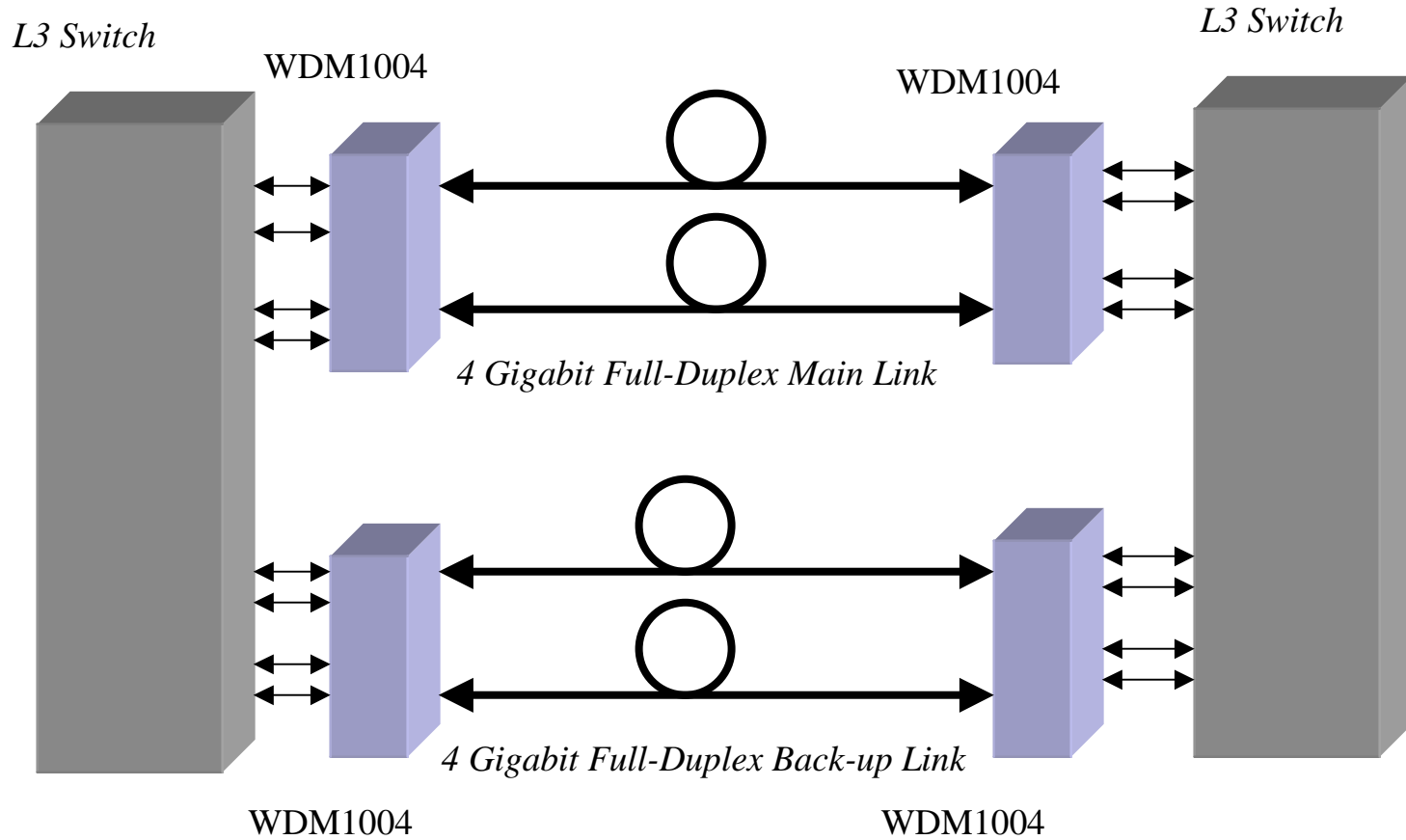
WDM1004 Application System 1



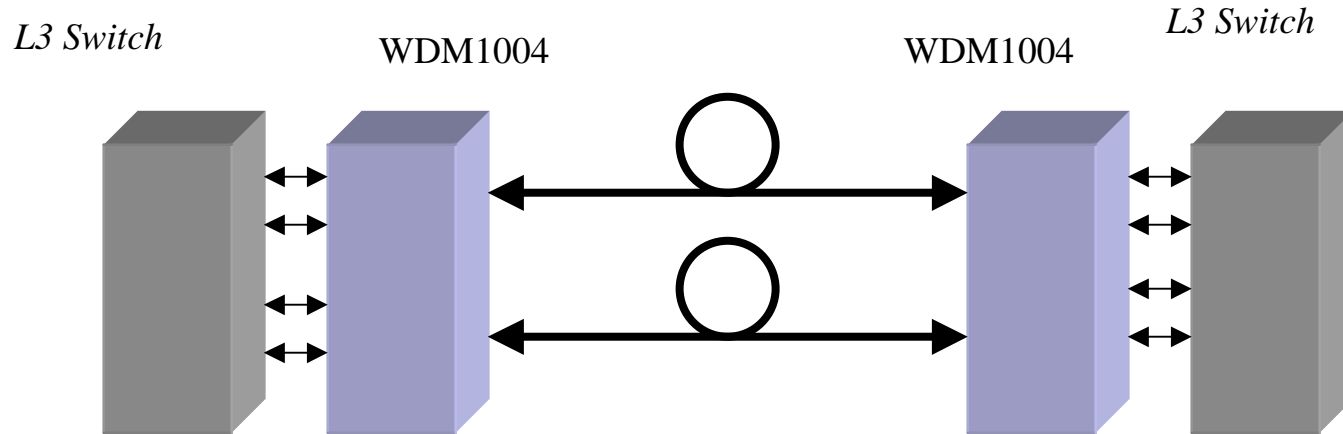
WDM1004 Application System 2



WDM1004 Application System 3



WDM1004 Application System 4



*2 Gigabit Full-Duplex Main Link &
2 Gigabit Full-Duplex Back up Link*



