New Generation of WDM System WD1004

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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

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- WDM capacity : Can go to several "Tera" bps
- Deployed for carrier's backbone network now $(PDH \rightarrow SDH \rightarrow SDH + WDM \rightarrow IP \text{ over WDM}$

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Advantage of WDM System

- To avoid additional fiber installation
- Upgrade the capacity of single fiber For example 100Mbps FDDI \rightarrow 10/20/40 Gbps Loop Backbone
- Longer transmission distance For example Fiber Channel 10Km \rightarrow 40 to 50Km (SMF) w/o Amp
- Protocol-independent

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

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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 1000000

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WDM1004 Product Summary - 2

• Web-base SNMP manager

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• Remote (Long-hale) ports to support single mode fiber (SMF) Up to 35Km

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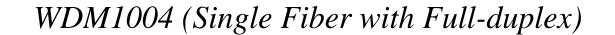
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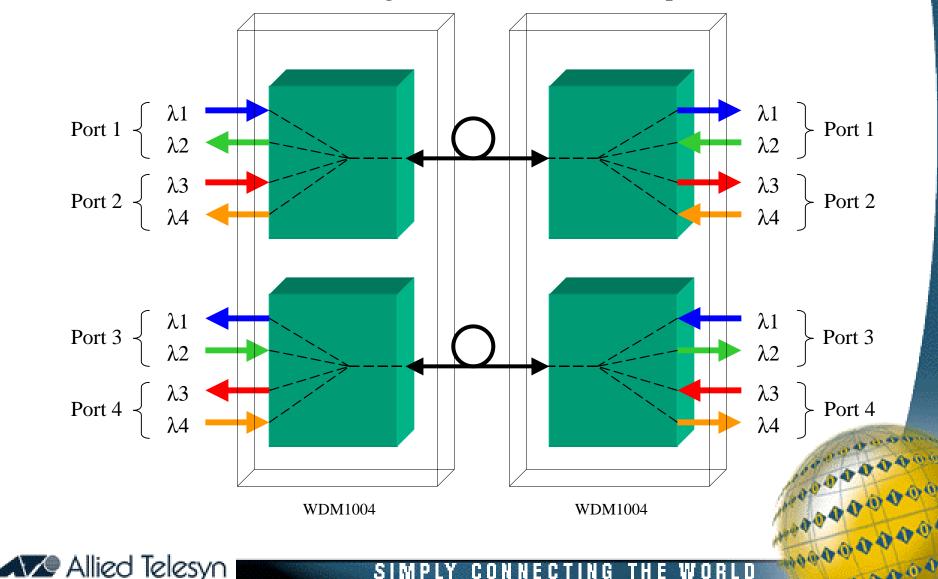
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- Original WDM technology – competitive price and high performance
- AC and DC –48V Power Supply is Available

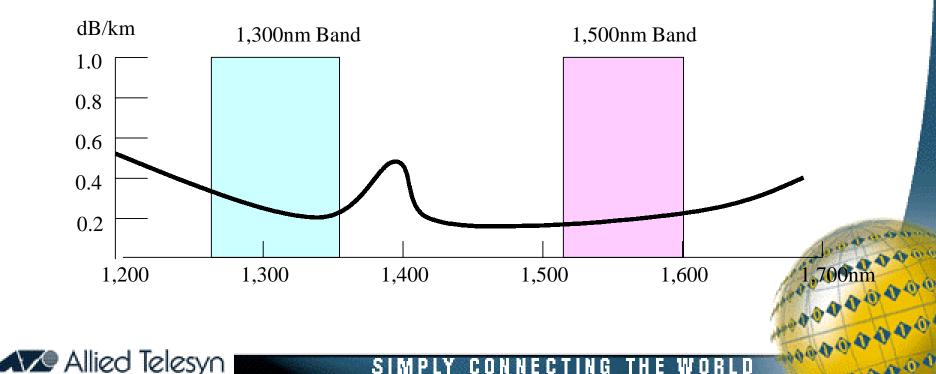


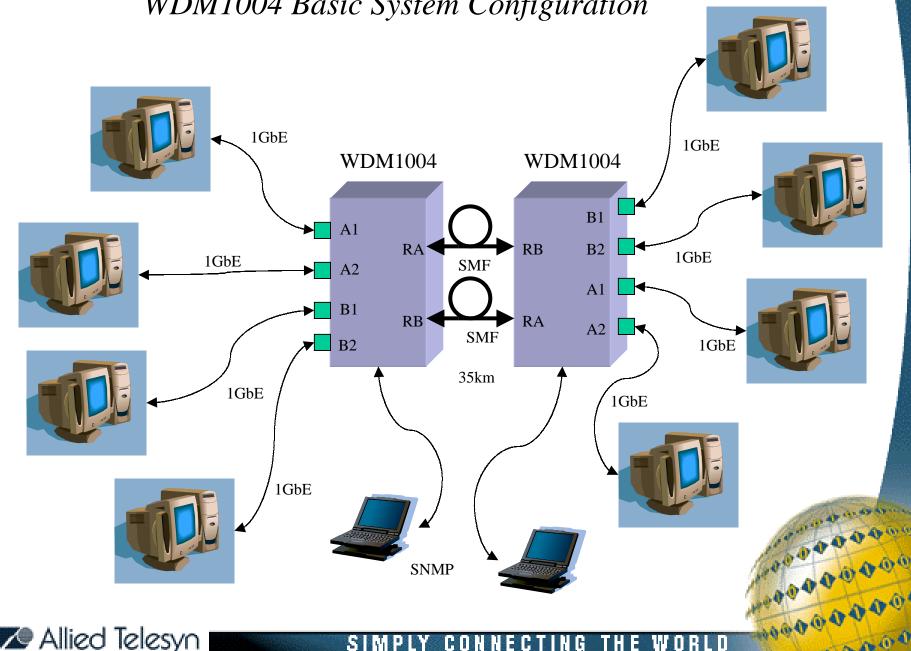


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Wavelength Band used in WDM1000 series

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





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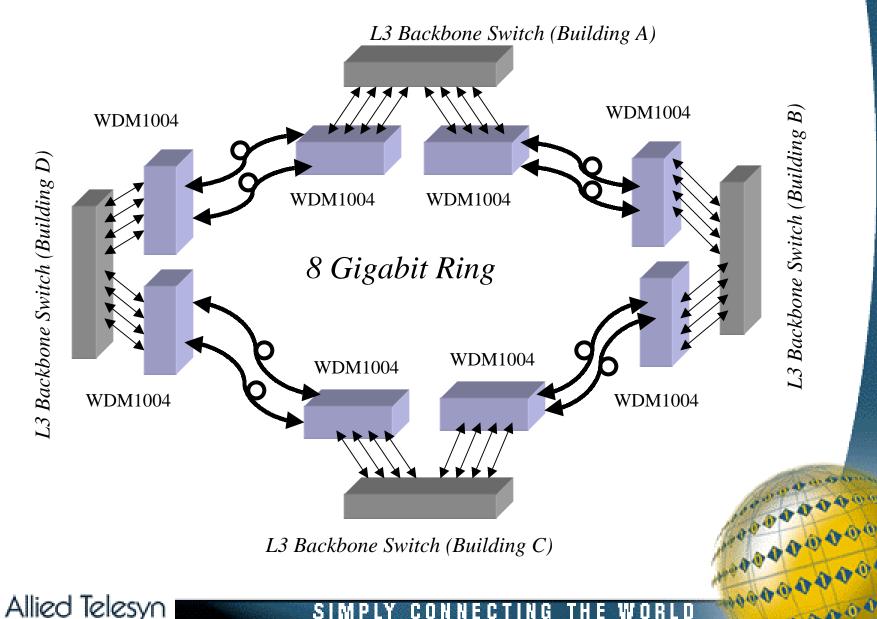
WDM1004 Basic System Configuration

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WDM1004 Application System 1



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WDM1004 Application System 2 L3 Backbone Switch (Building A) \$ WDM1004 4 Gigabit Ring

L3 Backbone Switch (Building B) L3 Backbone Switch (Building D) WDM1004 WDM1004 WDM1004 • ŧ • Ŧ 00000000 L3 Backbone Switch (Building C)

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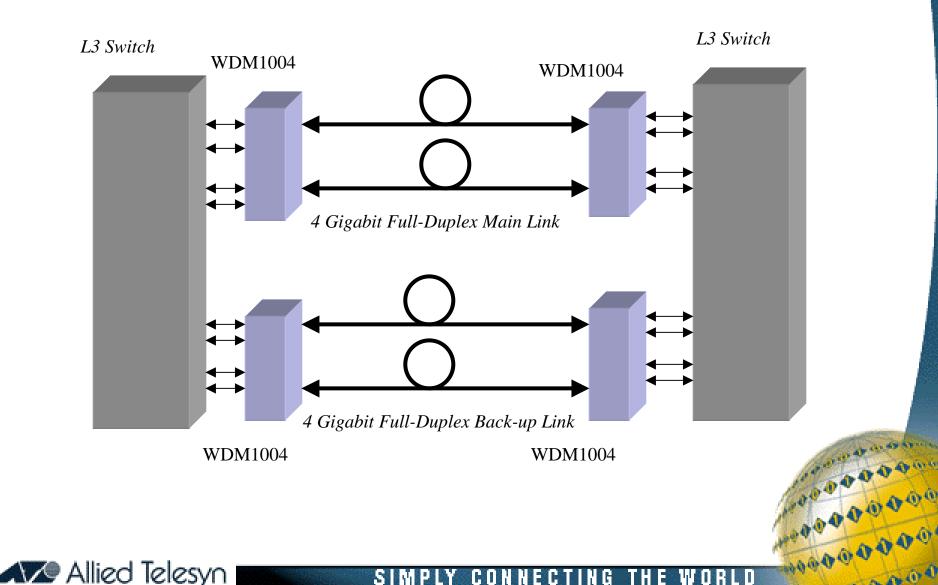
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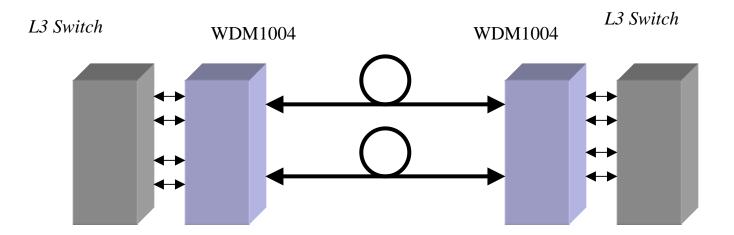
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WDM1004 Application System 3



WDM1004 Application System 4



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

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