



## The XKL DBC brings scalability to the DXM optical transport system

DarkStar Band Combiners are available in 4-port and 6-port configurations. These devices combine or add/drop DXM 10-channel bands, 40 total channels per dark fiber pair today. The DBCs and DBCd are both designed to combine up to 60 total channels per dark fiber pair to accommodate future DXM optical transport systems.

The DarkStar Band Combiner passive architecture enables reliable system scalability with continuous network operation.

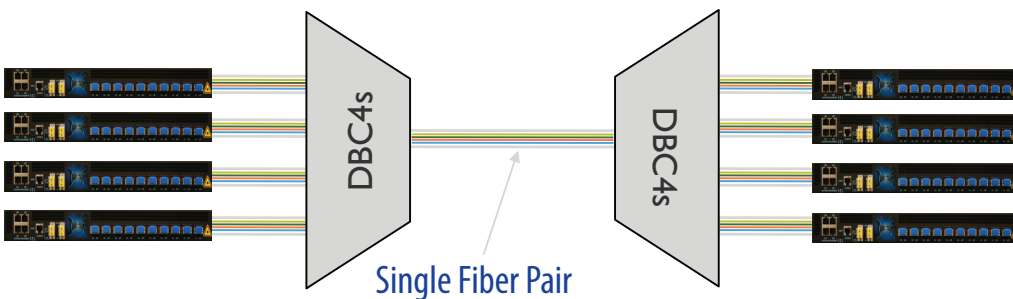
**DBC:** Use for single-path combination of up to 60 composite signals from 6 DXM bands on a point to point fiber topology.

**DBCd:** Use for dual path combination of up to 60 composite signals (east and west) from 6 DXM bands in each direction on a ring or linear add/drop fiber topology.

## DarkStar DBC4s Example



### Passive Combination of 4 DXM Optical Transport Systems



## FEATURES & BENEFITS

### Ease Of Deployment / Ease Of Use

XKL's architecture is elegantly simple, providing optical transport with an easy to use router-like management structure. This includes well-known standards such as familiar command line interface (CLI), SNMP, and an independent TCP/IP management network. Setting up is a breeze for any IT department and does not require optical engineering skills.

### Scalability

The XKL DBC brings scalability to the DXM optical transport system. Combines or add/drops DXM 10-channel bands. Passive architecture enables reliable system scalability with continuous network operation.

### Yes...Size Matters

DBC devices are space-saving with their 1RU integrated package.

### It's So Easy Being Green

Completely passive DBC devices require no power and no cooling.

### Out of Box & Online...Same Day

Fully deploy in under 1 hour.

### Future Proof Your CAPEX

Scale as you need it, when you need it without optical engineering expertise.

### A Legacy Of Quality & Reliability

Unlike most new products, all DarkStar products have been designed to be the last gear standing. Designed, engineered and manufactured by the same team that changed the way networks connected a generation ago.

XKL is bringing fundamental change to worldwide telecommunications

Visit us at [www.xkl.com](http://www.xkl.com), or call us at 866.802.2777 (USA toll free) or +1.425.497.6590 to design a solution that best fits your bandwidth needs



# Technical Specifications



### Physical Dimensions

Width.....16.9"  
 Height.....1RU  
 Depth.....14"  
 Weight.....10lbs

### Power Requirements

Entirely passive  
 No power required

### Environmental Characteristics

No cooling required

### Architecture / Chassis

Integrated systems architecture  
 System scalability to 60 channel DWDM  
 19" 2-post mount

### Topology Compatibility

Point to point  
 Linear add/drop  
 Ring

### Optical Multiplexing & Transport

1TU-100Ghz DWDM channel grid  
 60 maximum channels per fiber

#### Optical loss:

3.7dB maximum combined band multiplex/demultiplex  
 2.3dB maximum line in to band out  
 2.6dB maximum band in to line out } For any given band, these two losses do not exceed 3.7dB combined.

## DarkStar DBC4d Example

### Passive Combination of 2 sets of 4 DXM Optical Transport Systems

