



# 6830E/6831E

Fiber Optic Gigabit Ethernet Transceivers



**“Fiber Optic Gigabit Ethernet Transceiver for Ultralong Distance”**



**“Our data network products are diversified, reliable, and economical.”**

### Applications

Gigabit Ethernet LAN Extension

Gigabit Ethernet Backbone Connection

### Features

Versions Available with One or One Pair of Fiber per Link

Ultra-Long Distance (>80km) Extension

Auto Crossover for TP Port

Support Link Alarm

Support Jumbo Frame

**1 Fiber Solution also Available (WDM)**

The 6830E/6831E Series is a high performance Fiber Optic Gigabit Ethernet Transceiver that extends the optical port of the Gigabit Ethernet Device beyond the normal limitation via one singlemode fiber pair (6830E) or one singlemode fiber (6831E). Using the 6830E/6831E, the distance can be extended 80 km or more.

The 6830E/6831E transceivers are frequently used to extend distance among the Gigabit Ethernet segments, from switches to switches, from switches to workstations, or from file servers to routers. They are also used to link Gigabit Ethernet segments together, extending distances between Gigabit Ethernet routers, and Gigabit Ethernet switches.

The 6830E/6831E is available with two packaging options: a rugged, standalone, and compact unit, or a plug-in card for a card cage system. Fully compliant to the IEEE 802.3 Standard, this transceiver can be plugged directly into any standard Gigabit Ethernet device. Its LEDs indicate power, transmitting, receiving, and optical link for ease in installing and troubleshooting

The 6830E/6831E design is capable of addressing a variety of non-standard configurations. Contact us to discuss your custom, OEM/private brand and high volume requirements.



Doing More With One Fiber



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Fiber Optic Gigabit Ethernet Transceivers

Network Data Transmission Systems



## Local

Data Interfaces	IEEE 802.3 and IEEE 802.3ab
Interface	1000Base-T
Connector	RJ-45

## Physical

Dimension: (H x W x D)	
Standalone unit	1.1" x 2.8" x 3.9"
Card-cage plug-in card	5.24" x 0.94" x 11.6"
Power Level	+5 VDC @ 1.5 A
Operating Temperature	0 to +50°C
Humidity	0 to 95% RH, non-condensing
Status Indicators	Power, FDX, ACT, TP Link, Optical Link

## Remote

Fiber Type	Singlemode
Number of Fibers	2 (6830E) or 1 (6831E)
Operating Wavelength	1310, or 1550 nm
Fiber Optic Connector	SC (Multimode and Singlemode)

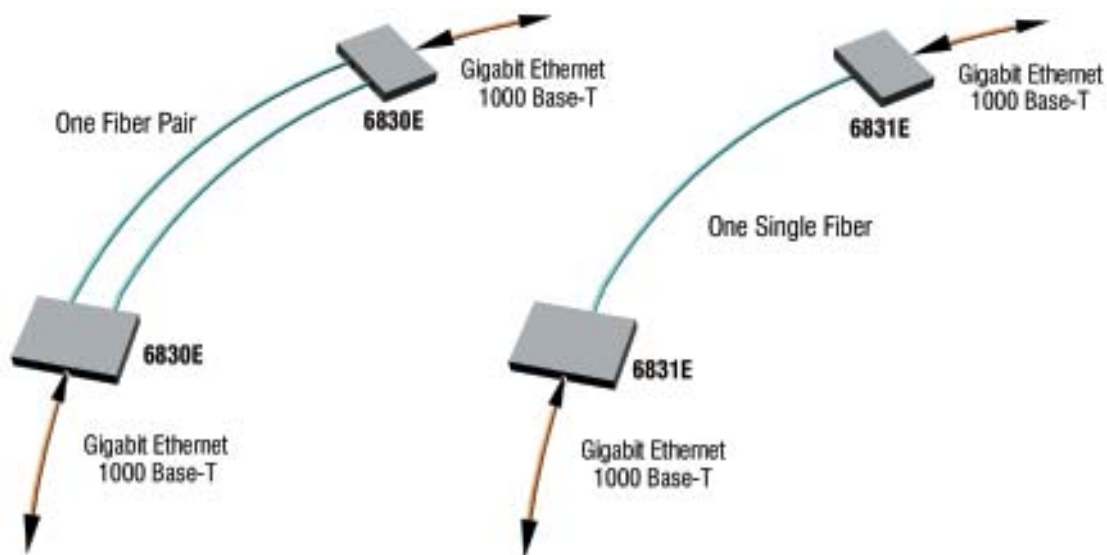
### Typical Power Budget and Transmission Distance

Application	Power Budget (1)	Typical Distance KM (2)	Typical Distance Miles (2)
Singlemode Short Distance	8	0.5	0.3
Singlemode Fiber	18	30	18.7
Singlemode Long Distance	22	80	50

(1) These are typical values for the 6830E/6831E Series. The actual values may vary.

(2) These are typical distance coverage figures. The maximum distance coverage may be greater than these typical numbers, depending on fiber type, fiber bandwidth, connector splicing losses, chromatic dispersion, environmental factors, etc.

## Application



### Doing More With One Fiber

Subject to continued product enhancement, we reserve the right to change the above specifications and description without notice.

