Electro Standards Laboratories
ADVANCED SYSTEMS DESIGN & SERVICES

MADE IN USA

®Fiber 485

SPECIFICATIONS
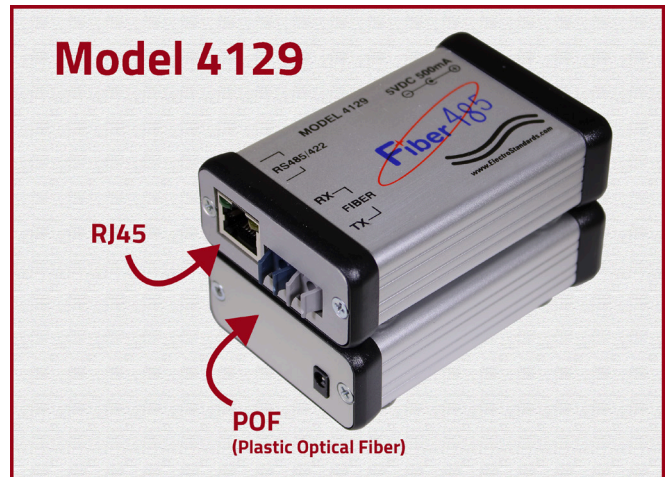MODEL 4129 (Cat. No. 304129)

Fiber 485® Model 4129 HP Fiber / RS485 Converter

- **Allow Connection of HP Fiber Optic Linked Terminals to RS485 Port of Controller**
- **Provides Electrical-to-Optical, Optical-to-Electrical Conversion**
- **Ideal for Casino Networks linking Video Lottery Terminals & Video Gaming Machines**
- **Facilitates Casino Gaming Expansion Network Installation.**

Model 4129 Application:

The Model 4129 Versalink (POF) Fiber to RS485/RS422 Interface Converter provides the user with an elegant solution to connecting a fiber optic network of terminals to a controller with an RS485/RS422 interface port. While RS485 is a versatile communication standard, able to communicate over long distances and at fast data rates, conversion to a fiber optic communication standard also allows data transmission that is no longer susceptible to electrostatic or electromagnetic fields. Additionally, the ports of the connected terminals are protected from damage by potential differences (ground variations) that often exist between them.

Fiber 485® FEATURES:

- **Model 4129:** RS485 / RS422 connection via an **RJ45 connector.**
- Converts RS485 / RS422 Serial Communication Interface to **HP Versatile Link plastic core cable.**
- Copper interface features ESD and Transient Voltage protection
- Provides full galvanic isolation (no metallic connection) between connected devices.
- Full duplex connection between HP Versatile Link fiber optic interface device or network and an RS485 interface device.
- Allows the interference-free fiber optical transfer of data to be utilized by the device having an RS485/RS422 interface.
- Data transfer rate up to 1 Mbps.
- Fiber connections via two standard Versatile Link connectors.
- Configurable for use at DCE or DTE **(specify with order).**
- Maximum Link distance: greater than 500 meters (1640 feet) with 2.00 mm Hard Clad Silicon fiber cable.
- Provided with external wall-mount power supply, UL approved.

Model 4129

RJ45

POF
(Plastic Optical Fiber)

Fiber 485® Specifications:

Fiber Transmission Distance: 75 m (250 ft.) using TC 1000 W type plastic fiber cable.

RS485/422 Transmission Distance: Greater than 300 m (1000 ft.).

Optical Fiber Connectors: HP/Agilent Versatile Link

RS485/RS422 Connector: RJ45 female on Model 4129.

Optical Cable Type: 1mm plastic optical film.

Optical Wavelength: 660 nm (red).

External Power Supply: 120 VAC, 60 Hz wall mount power supply is included with each unit (Cat No 533973).

Dimensions: 2.25" x 1.10" x 3.55" (5.8 x 2.8 x 9.1 cm).

Weight: 0.5 Lb. (226 grams).

Status Display: Red LED.

RS485 / 422 Signals		
Model 4129 RJ45 Pin #	Signal	Signal Direction
4	RX +	IN ←
6	RX -	IN ←
1	TX +	OUT →
7	TX -	OUT →
5	REF/GND	

HP Versatile Link Plastic Core Cables	
Catalog Number	Length
986625-010	10 Feet
986625-020	20 Feet
986625-XXX	Length in Feet

MODEL 4129 APPLICATION: HP Fiber / RS485 Converter

MODEL 4129

VIDEO GAMING MACHINES

VLT   VLT   VLT

HP FIBER LINKS

CONTROLLER

RS485 / 422

RCV   TX

RJ45 on Model 4129

VLT   VLT   VLT

VIDEO GAMING MACHINES