Electro Standards Laboratories
ADVANCED SYSTEMS DESIGN & SERVICES

®Fiber 485

Fiber 485® Models 4127 / 4129 HP Fiber / RS485 Converters
- *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*

Models 4127 / 4129 Application

The Fiber 485, HP Fiber / RS485 Converters are used to connect fiber optic linked Video Lottery Terminals to a controller having 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 4127:** RS485 / RS422 connection via a **DB15 connector.**
- **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.

★ **Municipalities, schools, government: This product is on GSA Schedule!**

Model 4129 (RJ45 Connector)
Model 4127 (DB15 connector)

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: **DB15 female on Model 4127, RJ45 female on Model 4129.**
Optical Cable Type: 1mm plastic optical film.
Optical Wavelength: 660 nm (red).
External Power Supply: 120 VAC, 60 Hz.
Dimensions: 5.5" x 2.25" x 1.0" (139mm x 57mm x 25mm).
Weight: 0.5 Lb. (226 grams).
Status Display: Red LED.

GSA Schedule
Contract GS-35F-0286V

RS485 / 422 Signals

Model 4127 DB15 Pin #	Model 4129 RJ45 Pin #	Signal	Signal Direction
4	4	RX +	← IN
11	6	RX -	← IN
2	1	TX +	→ OUT
9	7	TX -	→ OUT
7	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 4127 and MODEL 4129 APPLICATION: HP Fiber / RS485 Converter

VIDEO GAMING MACHINES

CONTROLLER

MODEL 4127 or MODEL 4129

RS485 / 422

DB15 on Model 4127
RJ45 on Model 4129

TX
RCV

HP FIBER LINKS

VLT

VIDEO GAMING MACHINES