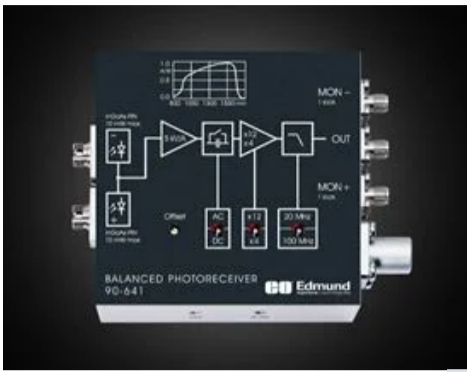


# InGaAs FC Fiber Balanced Photoreceiver, 900-1700nm



Stock #90-641 **NEW** 1 In Stock

1

MRP ₹3,78,603

Price inclusive of all taxes

**ADD TO CART**

Volume Pricing	
Qty 1+	₹3,78,603 each
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## General

**Note:** Includes:  
Lemo®3-pin connector  
(3) Adapter SMA (male) to BNC (female)  
Datasheet

## Physical & Mechanical Properties

**Weight (g):** 350

**Dimensions (mm):** Case Size: 80 x 80 x 30.5

## Optical Properties

**Spectral Range:** 900 - 1700 nm

## Sensor

**Detector Type:** InGaAs PIN photodiode

## Electrical

**Transimpedance Gain ( $\Omega$ ):**  $2 \times 10^4$  or  $6 \times 10^4$ (switchable)

**Noise Equivalent Power NEP ( $W/ Hz^{1/2}$ ):**  $4 \times 10^{-12}$  @880nm

**Bandwidth (-3 db):** 100 MHz

**Output Signal:**  $\pm 1.0$  V at  $50 \Omega$  load (for linear gain and low harmonic distortion), maximum  $\pm 2.0$  V at  $50 \Omega$  load

**Conversion Gain (V/W):**  $20 \times 10^3$  or  $57 \times 10^3$ (switchable)

**Common Mode Rejection (dB):** 55

## Hardware & Interface Connectivity

**Power Requirement:**  $\pm 15$  V ( $\pm 14.5$  V ...  $\pm 16.5$  V) -90 / +120 mA

**Power Supply:** Power Supply Required and Sold Separately:  
USA: **#59-180**  
Europe: **#59-**

180  
 Japan: Not Available  
 Korea: Not Available  
 China: #59-180

## Environmental & Durability Factors

**Operating Temperature (°C):** 0 to +60

## Regulatory Compliance

**RoHS 2015:** **Compliant**

**Certificate of Conformance:** [View](#)

**Country of Origin:** Germany

**Imported By:** Edmund Optics India Private Limited  
 267, Greystone Building,  
 Second Floor,  
 6th Cross Rd,  
 Binnamangala,  
 Stage 1,  
 Indiranagar,  
 Bengaluru,  
 Karnataka,  
 India 560038  
 Phone: +91-80-6845 0000

## Product Details

- Subtracts Two Photodiode Signals for Differential Detection
- Improved Signal to Noise Ratio (SNR) for Weak or Modulated Optical Signals
- High Common-Mode Noise Suppression for Improved Measurement Sensitivity and Accuracy
- Available in Si and InGaAs models for UV-VIS and NIR spectral ranges

Balanced Photoreceivers use true differential detection by subtracting the photocurrents from two matched photodiodes, producing a single electrical output proportional to the difference in optical power between the two inputs. This suppresses common-mode noise, such as laser intensity fluctuations, improving SNR and measurement sensitivity. Balanced Photoreceivers are engineered with a low-noise transimpedance amplifier, which ensures stable, consistent performance for precision optical measurements. Available in Si and InGaAs models for UV-VIS (320-1000nm) and NIR (800-1700nm) spectral ranges, these photoreceivers are ideal for coherent optical detection, interferometry, spectroscopy, and optical coherence tomography (OCT).

**Note:** Power supply sold separately. Please see specifications for more details.

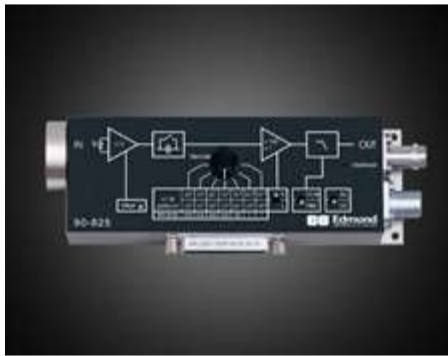
## Accessories

**Note:** Compatible accessories for individual stock numbers may vary. If unsure about which accessories work with your products, please contact us [here](#).

	Title	Compare	Stock Number	Price	Buy
<a href="#">MORE+</a>	110-240V Amplifier & Photodetector Power Supply		#59-180	₹30,092 <a href="#">Request Quote</a>	2 In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	FC/PC, FC/UPC Fiber Adapter		#90-631 <b>NEW</b>	₹10,089 <a href="#">Request Quote</a>	1 In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	FC/APC Fiber Adapter		#90-632 <b>NEW</b>	₹11,682 <a href="#">Request Quote</a>	1 In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	FSMA Fiber Adapter		#90-633 <b>NEW</b>	₹8,496 <a href="#">Request Quote</a>	1 In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	100mm Low Noise BNC to BNC Cable		#90-644 <b>NEW</b>	₹17,523 <a href="#">Request Quote</a>	<a href="#">CONTACT US</a> <input type="text" value="1"/>
<a href="#">MORE+</a>	200mm Low Noise BNC to BNC Cable		#90-645 <b>NEW</b>	₹18,054 <a href="#">Request Quote</a>	<a href="#">CONTACT US</a> <input type="text" value="1"/>

	Title	Compare	Stock Number	Price	Buy
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<a href="#">MORE+</a>	1m Low Noise BNC to BNC Cable		#90-647 <b>NEW</b>	₹19,647 <a href="#">Request Quote</a>	<a href="#">CONTACT US</a> 1
<a href="#">MORE+</a>	1.5m Low Noise BNC to BNC Cable		#90-648 <b>NEW</b>	₹20,178 <a href="#">Request Quote</a>	<a href="#">CONTACT US</a> 1
<a href="#">MORE+</a>	2m Low Noise BNC to BNC Cable		#90-649 <b>NEW</b>	₹21,240 <a href="#">Request Quote</a>	<a href="#">CONTACT US</a> 1
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<a href="#">MORE+</a>	4-Pin Lemo® Connector		#90-654 <b>NEW</b>	₹4,248 <a href="#">Request Quote</a>	<a href="#">CONTACT US</a> 1

## Related Products



Variable Gain Photoreceivers