



# PO-005

## FIBRE OPTIC RECEIVER TO 10 BIT VIDEO

The PO-005 is a stand alone solution for single channel fibre optic to 10 bit parallel video. Using the Gennum chipset the module provides EDH insertion for SMPTE 259M compliant signals. The module can successfully receive a serial digital signal over a range of up to 7km. The PO-005 compliments the PI-005 10 bit parallel video to optic fibre transmitter.

### INPUT

**Optical wavelength** 1270nm to 1380nm  
**Optical input sensitivity** -29dBm for BER <1x10E-12  
**Optical input overload** -14dBm for BER <1x10E-12

### OUTPUTS

**Output signal** CCIR Rec. 656 10 bit parallel video

### SUPPLY

**Power:** 5V  
**Current:** 300mA max

### EDH OPTION

<b>Indications:</b>	EDH - Error detected Here	(Note 1)
	EDA - Error detected already	(Note 1)
	UES - Unknown Error status	(Note 1)
<b>Controls:</b>	TRS - Insert:	(Note 2)
	Bypass Mode:	(Note 2)

**Note 1.** These are accessible only through the serial interface SCL and SDA.

**Note 2.** These are available only through the I/O interface see connector for details.

### CONNECTORS

**Input** ST multimode  
**Output** 48 PIN Z-PAC 4 row x 12 on 2mm pitch

**INDICATORS** Carrier Detected (Green) LED

## Connector Pinout

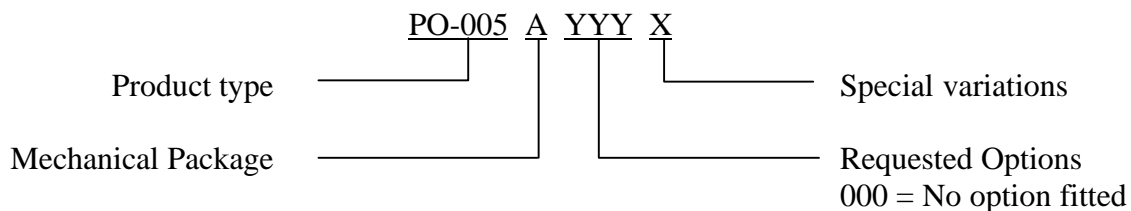
1	2	3	4	5	6	7	8	9	10	11	12
+5V	CLK	D0	D1	D2	D3	D4	D5	D6	D7	D8	D9
13	14	15	16	17	18	19	20	21	22	23	24
+5V	+5V	A0	A1	SDA	SCL	RESET	TRS INSERT	BYPASS EDH	GND	GND	GND
25	26	27	28	29	30	31	32	33	34	35	36
NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	ID3
37	38	39	40	41	42	43	44	45	46	47	48
IO8	IO9	IO10	IO11	IO12	NC	NC	NC	NC	ID0	ID1	ID2

RESET	When taken low resets the internal circuitry of the serial digital input processor.
BYPASS EDH	Internally pulled high: When high EDH packet is passed through unaltered.
TRS INSERT	Internally pulled high: Pull low to disable TRS Blanking, ITU-601 Clipping & TRS Insertion.
D0 to D9	Parallel Data Bus D0 LSB , D9 MSB
CLK	Parallel Data clock
A0,A1	Address lines to modify I <sup>2</sup> c bus address.
SCL,SDA	I <sup>2</sup> c data and clock lines
ID0,ID1,ID2,ID3	Card type identification code.
IO8-IO12	Do not connect.

## Card Type Identification code.

CARD TYPE	ID3	ID2	ID1	ID0
PI-005	0V	+5V	0V	0V

## Ordering codes



Note: This item is **NOT** aqueous washable.



Third Angle Projection

All dimensions in millimetres (inches). Gen Tolerance  $\pm 0.05$  (0.002) unless otherwise stated. DO NOT SCALE © Faraday Technology Ltd, Croft Road, Newcastle-Upon-Tyne, ST5 0QZ, England. Tel: (044) 01782 661501 Fax: 630101



Change Note No;	Drawn: B A Knapper	Auth: S Jones
777	Date: 06/09/00	Date: 06/09/00

Title:	INTERFACE CARD P0-005
--------	--------------------------

Drg No:	DR00296B
---------	----------

44DRGBLK.CDR.