



PI-005

10 BIT VIDEO TO FIBRE OPTIC TRANSMITTER

The PI-005 is a stand-alone solution for 10 bit parallel video to fibre optic (serial) conversion. The module can accommodate two fibre optic outputs or one fibre optic and one SMPTE 259M compliant electrical output. Using the Gennum chipset the PI-005 provides EDH insertion for SMPTE 259M serial interface for composite and component standards. The PI-005 complements the PO-005 fibre to parallel module.

INPUT Parallel multiplexed component signals to CCIR Rec 656.

Note. To ease interfacing into equipment data is latched by the rising edge of the clock.

Data set up time: 3 ns min to positive edge of clock

Data hold time: 2.5 ns min from positive edge of clock

OUTPUT

Output options: **Package A:** Outputs 1 & 2

2 off Optical fibre

Package B: Outputs 1 & 3

1 off Optical fibre and 1 off Electrical (compliant with SMPTE 259M)

Optical wavelength: 1270nm to 1380nm

Optical output power: 14dBm max

Fibre: 0.275nA 62.5/125 μ

Output connectors: ST multimode (optical); 75 Ω BNC (electrical)

SUPPLY

Power: 5V

Current: 300mA max

EDH OPTION

Indications: EDH - Error detected Here (Note 1)

EDA - Error detected already (Note 1)

UES - Unknown Error status (Note 1)

Controls: Transmit/Receive Mode: (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.

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	R/ \bar{T} EDH	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	NC
37	38	39	40	41	42	43	44	45	46	47	48
NC	NC	NC	NC	NC	NC	NC	NC	NC	ID0	ID1	ID2

D0 to D9

Parallel Data Bus D0 LSB , D9 MSB

CLK

Parallel Data clock

A0,A1

Address lines to modify I²c bus address.

SCL,SDA

I²c data and clock lines

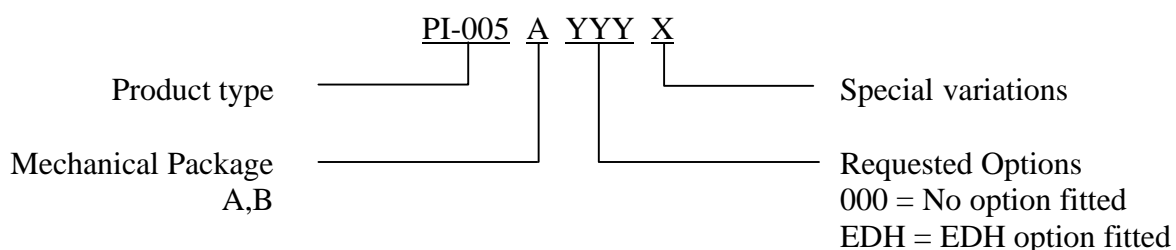
ID0,ID1,ID2

Card type identification code.

Card Type Identification code.

CARD TYPE	ID2	ID1	ID0
PI-005	0V	0V	0V

Ordering codes



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

