



Technical Specifications

- The board include the following elements: a TTL input digital transmitter, a digital receiver with data regenerator, an analogue transmitter with continuous variation of the working point of the emitting diode, a variable gain analogue receiver, auxiliary devices (continuously variable frequency clock generator, bit pseudo-random sequence generator, with single pole / NRZ / Biphase / Manchester TTL line coding)
- Internal test signal frequency: 100 ÷ 800 kHz, multi mode plastic fibre with fast connection terminals (two fibres must be provided: 50 cm and 5 m long respectively)
- Optical transmitter and receiver: 880 nm, 50 MHz
- LED diode optotransmitter emitting at 660 nm and PIN diode optoreceiver with integrated transimpedance amplifier.

This panel is include the elements for the experimental study of the following topics:

- Use of the optical fiber as transmissive mean of the information
- Light modulation for the information coding and transport
- Familiarisation and study of the characteristics of the devices emitting and receiving the optical radiation
- Carrying out of an F.O. experimental connection for the digital transmission
- Carrying out of an F.O. experimental connection for the analog transmission
- Familiarisation with different line codes used for the coding and the transmission of digital signals.

With this board it is possible to perform the following exercises:

- Architecture of fiber optics systems
- NRZ, BIPHASE, MANCHESTER coding
- Optical transmitter and receiver

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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IT-2013, Ramchandrapura Industrial Area,
Sitapura Extension, Jaipur-302022, India.



info@tesca.in
www.tescaglobal.com

- Transmission speed
- The digital signal generator
- Transmission of digital signals
- Transmission of analog signals
- It is mounted on an insulated didactic module, it show a schematic diagram and 2 mm terminals for the electrical connection
- The board is supplied complete with a set of stackable, plug-in cables of suitable lengths and colors and with a training manual.
- Power supply: ± 15 Vdc, 300 mA

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