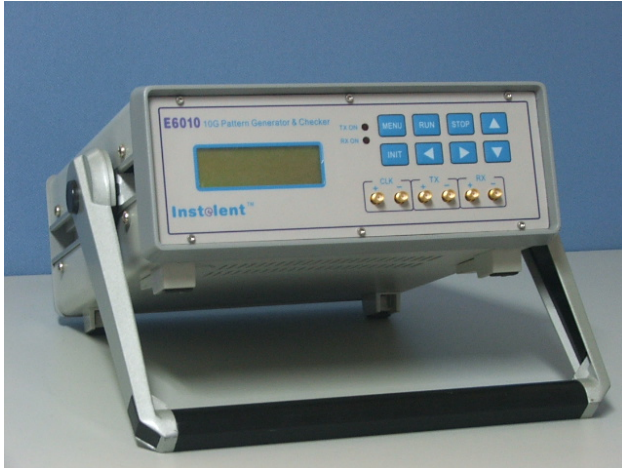


## E6010 Pattern Generator & Checker For 10G Application



### Features & Benefits:

- ✧ Integrated Device of Pattern Generator and Checker
- ✧ Low Jitter Output, to Test the Performance of Optical Modules
- ✧ Data Rate up to 10Gbps, two group of rates according with several standards
- ✧ Multi-Standard Test Patterns
- ✧ RX/TX expresses Signal Input/Output
- ✧ CLK expresses the Clock Output, which is Synchronized with Data Output
- ✧ The 1/16 / 1/64 CLK employs in eye pattern test, which is 16 / 64 divided-frequency of CLK
- ✧ The Signal Input, Signal Output and CLK output are Differential
- ✧ Using the keyboard to set the Current Working Mode
- ✧ LCD Screen shows the Setting, Current Working Mode and BERT Sub-menu
- ✧ The BERT time can choose from 10s/20s/30s/40s/50s
- ✧ E6010 makes beep once while no bit error in test, whereas makes beep twice.
- ✧ E6010 can be controlled by PC for building Auto Test System (Option)

### Applications:

- ✧ High Frequency, Signal Transmission Performance Test

- ✧ For pattern generation, Generate Multi-Standard Test Patterns on 10Gbps
- ✧ With INSTELENT T6001 Test Board to test BER and Eye Pattern characters of XFP Optical Modules (Eye Pattern Analyzer is needed in the latter.)

## Characteristics:

### Rate:

- ✧ Up to 10Gbps
- ✧ The group of rates are compliant to OC-192, 10GE and 10G Fiber Channel
- ✧ Two groups of rates for choice while ordering E6010 are as follows:  
9.95Gbps/10.26Gbps/10.7Gbps and 10Gbps/10.3125Gbps/10.7Gbps
- ✧ Other rates, please contact INSTELENT for further details

### Test wavelength:

- ✧ Multi-wavelength, from 850nm to 1610 nm (Depend on the XFP module)

### Output Pattern:

- ✧ PRBS :  $PRBS2^7 - 1$  、  $PRBS2^{23} - 1$  and  $PRBS2^{31} - 1$

### Electrical characters:

- ✧ Input Signal Amplitude(Diff): 100mV~1400mV
- ✧ Input Impedance: Diff: 100Ω, Single Ended: 50Ω, AC coupled
- ✧ Output Signal Amplitude (Diff): Tunable, 600mV, 800mV or 1000mV
- ✧ Output Impedance: Diff: 100Ω, Single Ended: 50Ω, AC coupled
- ✧ Average Duty Cycle: 50%±5%
- ✧ Rise/Fall Time(20%~80%): < 45ps
- ✧ Random Jitter: < 2ps, typical: 1.5ps
- ✧ Peak-to-Peak Jitter: < 15ps

### RS232 Interface (Option):

- ✧ For building Auto Test System, E6010 can be controlled by PC via RS232 interface on the rear panel. The driver is supplied by INSTELENT.

### Keyboard:

- ✧ 8 buttons as follows: Menu, Run, Stop, Init and Four direction buttons

### LCD and Indicators:

- ✧ Resolution of LCD is 4x20; every character has 8x6 lattice.

- ✧ Backlight of the LCD can be turned on/off in the setting sub-menu.
- ✧ The Menu, Mode, and Test Result are displayed on the LCD.
- ✧ Two indicator lights on the front panel, TX ON indicates on of Data Output, RX ON indicates on of Data Input.

### **Environmental Requirement:**

- ✧ Operating Temperature: 0°C ~ +50°C
- ✧ Nonoperating Temperature: -55°C ~ +80°C
- ✧ Operating Humidity: 20%~80%
- ✧ Nonoperating Humidity: 10%~90%
- ✧ Power: 220V±20%, 50Hz±10%

### **Dimensions:**

- ✧ Length: 305 mm
- ✧ Width: 258 mm
- ✧ Height: 102 mm
- ✧ Net Weight: 4.5 kg

**IF YOU HAVE ANY QUESTION, PLEASE CONTACT INSTELENT.**

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