

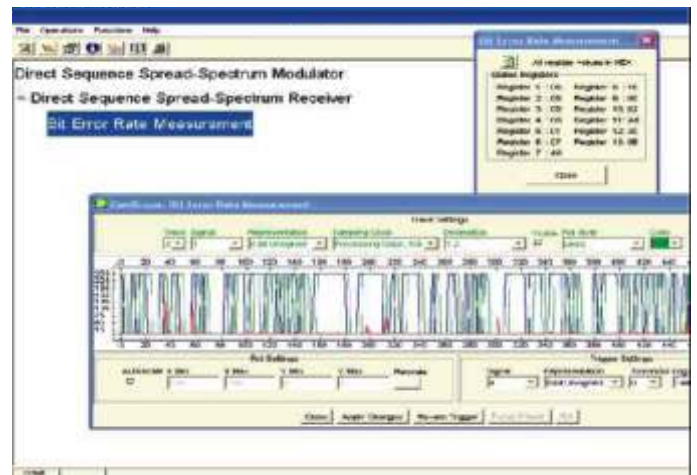


#### Specifications for bit error module

- ◆ Measures actual bit errors while a known PRBS-11 pseudo-random test sequence is being transmitted.
- ◆ Accurate BER measurement down to  $10^{-8}$
- ◆ Adjustable measurement window from 1,000 bits to 1,000,000,000 bits, to trade off BER range and measurement duration
- ◆ Fast automatic synchronization
- ◆ Cycle slips detection
- ◆ 32-bit cumulative BER counter for long duration measurements
- ◆ 1 bit serial / 2 bit parallel input selection (I before Q, or I/Q)
- ◆ ComScope Software : Key internal signals can be captured in realtime and displayed on host computer itself. BER measurement is made by counting actual errors in the received bit stream. The received bit stream is compared with a locally generated replica of the reference PRBS-11 sequence. The reference sequence is a periodic 2047-bit long maximum length sequence generated by a 11-tap linear feedback shift register.

◆ **Power Supply** : 220 V  $\pm$  10%, 50 Hz / 60 Hz on request.

◆ **Power Consumption** : 2.5 VA (approx.)



Software Window

#### Extra Experiments with

- ◆ Spreading-despreading with onboard NRZ binary data (Data 1 & Data 2 (inverted) bits as a data message.
- ◆ Bit error rate measurement with PRBS-11 data (2047 bits) & signal capture on ComScope Software.

Note: Specifications are subject to change.

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