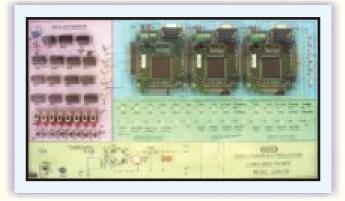


CDMA TRAINER WITH BIT ERROR MEASUREMENT

MODEL - CDMA100B

This trainer has been designed with a view to provide practical and experimental knowledge of Code Division Multiple Access (CDMA) technique as practically implemented for cellular telephony.



SPECIFICATIONS

- 1. Direct Sequence Spread-Spectrum (DSSS) Modulator, Demodulator.
- 2. Programmable chip rates up to 10 Mchip/s
- 3. Spreading Codes
- 4. Gold sequence(up to 223-1) chips
- 5. Maximal length sequences, (max length 223-1) chips)
- 6. Barker codes(length 11,13)
- 7. Code Modulation: PSK/QPSK/ OQPSK with output spectral shaping filter
- 8. Raised cosine square root filter with 20%, 25% or 40% roll off
- 9. Internal generation of pseudo-random bit stream and un modulated carrier for test purposes.
- 10. Built-in channel impairments generation
- 11. Additive White Gaussian Noise
- 12. Freq. Offset(Doppler)
- 13. Sequential code search
- 14. 4-bit soft-quantizes demodulated bits
- 15. Extensive monitoring
- 16. Receiver monitoring
- 17. Carrier freq. Error

In keeping view of SIGMA policy of continuous development and improvement, the Specifications may be changed without prior notice or obligation.

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For bit error rate measurement

- 1. Measurement of actual bit errors while a known PRBS-11 pseudo random test sequence is being transmitted.
- 2. Accurate BER measurement down to 10°
- 3. Adjustable Measurement window from 1,000 bits to 1,000,000,000 bits to trade off BER range and measurement duration
- 4. Fast automatic synchronization
- 5. Cycle slips detection
- 6. 32-bit cumulative BER counter for long duration measurements
- 7. 1 bit serial / 2 bit parallel input selection (I before Q, or I/Q)

Com scope software : key internal signals can be captured in real-time 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 liner feedback shift register

Accessories:-

1. Software CD-Rom, Theory manual, Programming Software Operating & application manual Faq's, Serial interface cable.