

Product Name :
Basic Analogue and Digital Communications Training System

Product Code :
NCL-18-06-18-0037



Description :

Basic Analogue and Digital Communications Training System

Technical Specification :

The system Should Cover the Following training contents:

Amplitude Modulation(AM) / demodulation

Noise in AM modulation

Double sideband (DSB) modulation

Double sideband (DSB) demodulation

Single Sideband(SSB) modulation

Single Sideband(SSB)demodulation

FM modulation / demodulation

Sampling & reconstruction

PCM encoding /decoding

Time Division Multiplexing(TDM)

An introduction to Armstrong's modulator

Phase division modulation & demodulation

Pulse width modulation & demodulation

BW limiting and restoring digital signal

Amplitude Shift Keying (ASK)

Frequency Shift Keying (FSK)

Binary Phase Shift Keying (BFSK)

Quadrature Phase Shift Keying(QPHK)

Message Translation & inversion

Carrier acquisition using the PLL

SNR & eye diagram

PCM and SNDR

ASK demodulation using product detection

FSK generation (Switching method) & demodulation

Principles of GFSK

Spread spectrum –DSSS modulation & demodulation

PN sequences spectra and noise generation

Line coding and bit clock regeneration

Delta modulation & demodulation

Delta – sigma modulation & demodulation

Observation of AM &DSBSC signals in the frequency Domain

Data recovery

Intersymbol Interference (ISI)

Super heterodyne Principles

Speech and Audio message

Pulse Amplitude Modulation (PAM)

Phase Modulation(PM)

Signal to Noise Ratio (SNR)

Quadrature Amplitude Modulation(QAM)

Frequency Synthesis

Line coding

Pulse shaping

Electrical and Electronics

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