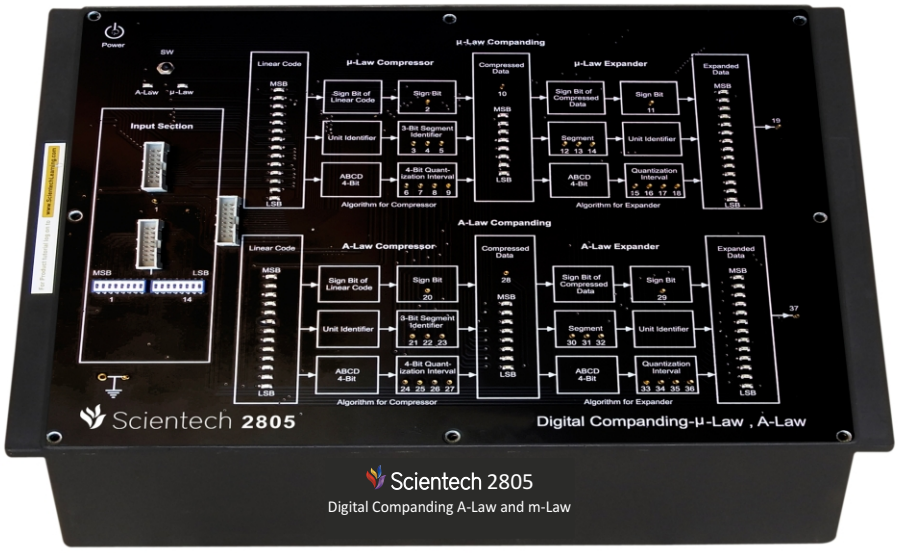
Digital Companding A-Law and m-Law

Scientech 2805



Scientech 2805
Digital Companding A-Law and m-Law

Scientech 2805 provides an extensive hands on learning on Digital Companding A-Law and μ-Law.

Features

- Compression and Decompression of data on same board
- On-board DDS Signal Generator
- Can be issued just like a book for hands-on learning

Scope of Learning (Experimentation)

A-Law and μ-Law Companding

Study and analysis of

- A-law Compression
- μ-law Compression
- A-law Decompression
- μ-law Decompression

Technical Specifications

Compression and Decompression Techniques	: A-Law, μ-Law
Signal Generator	: Direct Digital Synthesizer Generated Sine wave 14 Bit data input through Dip switch.
SMD LED Indicators	: 73nos, for Dip based input data Compressed output Decompressed output Technique selection
Crystal Frequency	: 8MHz
Test Points	: 37nos
Product Tutorial	: Online on www.ScientechLearning.com
Dimensions (mm)	: W 326 x D 252 x H 52
Power Supply	: 110V - 260V AC, 50/60Hz
Weight	: 1.5Kg (Approximately)
Operating Conditions	: 0-40°C, 85% RH
Included accessories	: 2mm Patch cord - 2nos FRC Cable 16 pins -1no.

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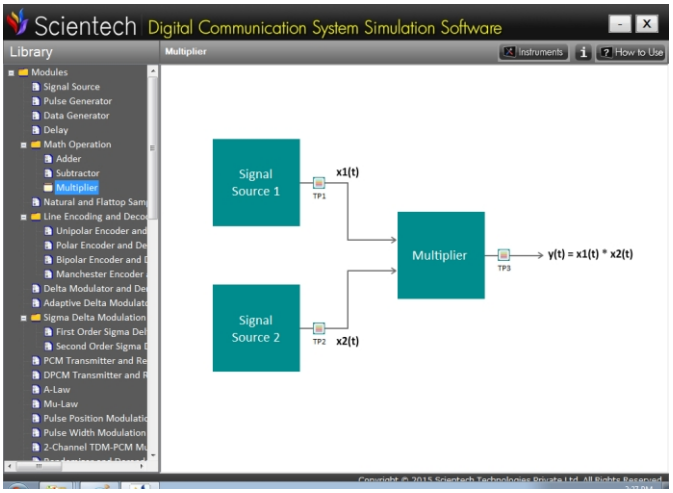
Simtel 11 - Digital Communication Interactive Software (optional)

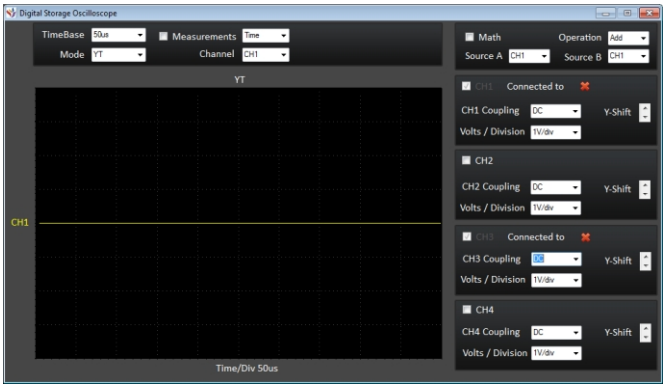
Simtel Digital communication is a handy module which assist user to understand concepts of digital communication. It simplifies the distinction between Analog & Digital Communication.

Topics Covered:

- **Signals basics**
- **Sampling & Reconstruction**
- **Time Division Multiplexing**
- **Pulse Code Modulation / Demodulation**
- **Linear / Adaptive Modulation**
- **Line Coding and Data Formatting: Unipolar NRZ-L, Unipolar NRZ-M, Unipolar RZ, Polar NRZ-L, Polar NRZ-M, Polar RZ, Polar Manchester, Biphase Manchester, Differential Manchester, Bipolar NRZ-L, Bipolar RZ, Bipolar RB, Bipolar AMI**
- **Carrier Modulation Techniques: ASK, FSK, PSK, DPSK**
- **Advanced Digital Modulation Techniques: QPSK, DQPSK, OQPSK, Pi/4 QPSK, 8-QAM, 16-QAM, MSK Modulation**

Software program windows:





Subject to Change

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