

TIME DIVISION MULTIPLEXING AND DEMULTIPLEXING

Objectives:

1. To examine signal sampling, aliasing and signal reconstruction.
2. To implement a time division multiplexing system using MATLAB Simulink.

Theory

While two or more messages need to be transmitted in a RF channel simultaneously, some transmission schemes, such as TDM, FDM and CDMA, etc, have been proposed for satisfying this requirement. Among these, the TDM is the most fundamental one. The time division Multiplexer (TDM MUX) module is used to recombine two analog signals into one data stream. It should be noted that, each signal should be sampled at the Nyquist rate ($\frac{1}{2}f_s$) in order to avoid aliasing. Also, time division Demultiplexer (TDM DEMUX) is used to reconstruct the original signals from the multiplexed data stream. Multiplexing and Demultiplexing are illustrated in Fig. 1.

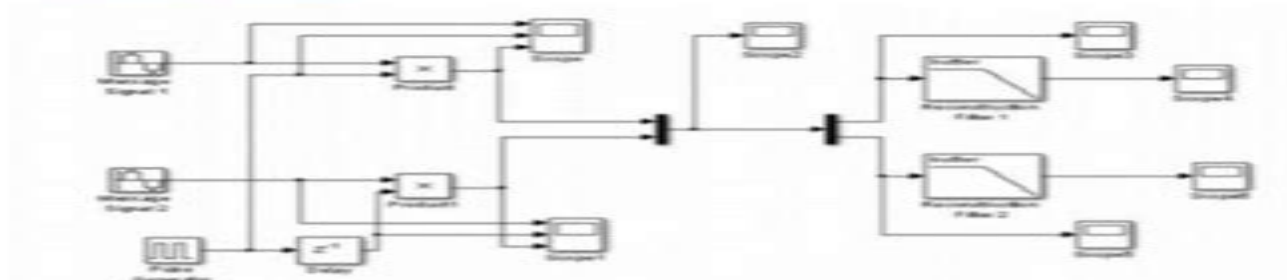


Fig. 1: Illustration of TDM MUX and TDM DEMUX

Procedure

1. Arrange the functional blocks as shown in Simulink model.
2. Assign required parameters to each functional block.
3. Observe the outputs on scope.

Simulink Model



Time Division Multiplexing And Demultiplexing Lab Manual

Wayne F. Westgate



Time Division Multiplexing And Demultiplexing Lab Manual:

Lab. Manual for CSE/CSE-DS/ AIML/AIDS students-A Practical Manual Dr. Rajiv Chopra,2025-02-21 Lab Manual for CSE CSE DS AIML AIDS Students By Dr Rajiv Chopra This book serves as a comprehensive lab manual for B Tech students specializing in Computer Science Data Science Artificial Intelligence and Machine Learning Designed with a practical and experiment based approach it bridges the gap between theory and real world application Covering essential programming concepts AI ML techniques and hands on exercises this manual equips students with the skills needed for modern computing challenges Ideal for CSE IT ECE and related disciplines this book encourages students to explore experiment and apply their knowledge effectively in labs and projects **NBS Special Publication** ,1973 OFC 2002 ,2002 Electrical & Electronics Abstracts ,1997 Annotated Bibliography of the Literature on Resource Sharing Computer Networks Robert P. Blanc,1973 **Government Reports Announcements & Index** ,1979 *Abstracts of Photographic Science & Engineering Literature* ,1971 *R & D Abstracts* Technology Reports Centre (Great Britain),1981 **INIS Atomindeks** ,1980 *Lasers & Optronics* ,1997 *NASA SP.* ,1982 **Aeronautical Engineering** ,1982 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA *Time Division Multiplexing. 1: Sampling and Multiplexing Principles [and] Time Division Multiplexing. 2: Pulse Code Modulation (PCM) [and] Time Division Multiplexing. 3: Delta Modulation (DM).* Degem Electronics,1976 Wavelength Division Multiplexing Klaus Grobe,Michael Eiselt,2013-09-12 In this book Optical Wavelength Division Multiplexing WDM is approached from a strictly practical and application oriented point of view Based on the characteristics and constraints of modern fiber optic components transport systems and fibers the text provides relevant rules of thumb and practical hints for technology selection WDM system and link dimensioning and also for network related aspects such as wavelength assignment and resilience mechanisms Actual 10 40 Gb s WDM systems are considered and a preview of the upcoming 100 Gb s systems and technologies for even higher bit rates is given as well Key features Considers WDM from ULH backbone big picture view down to PON access micro view Includes all major telecom and datacom applications Provides the relevant background for state of the art and next gen systems Offers practical guidelines for system link engineering Time Division Multiplexing 33 Success Secrets - 33 Most Asked Questions on Time Division Multiplexing - What You Need to Know Dale Walton,2014-10-30 Time Division Multiplexing Better than ever There has never been a Time Division Multiplexing Guide like this It contains 33 answers much more than you can imagine comprehensive answers and extensive details and references with insights that have never before been offered in print Get the information you need fast This all embracing guide offers a thorough view of key knowledge and detailed insight This Guide introduces what you want to know about Time Division Multiplexing A quick look inside of some of the subjects covered Data transfer Applications and history Data

transmission Applications and history GSM GSM carrier frequencies Statistical multiplexer EV DO Rev A Statistical multiplexing G PON Enabling technologies Cell relay How Cell Relay Works IS 136 1xEV DO DAB S Protocol stack Multiplexer Telecommunications Telecom switch Switch design BBC Four History Medium Access Control Common multiple access protocols Pulse code modulation Nomenclature Evolution Data Only Contention telecommunications Multiple access Code division multiple access CDMA Spread spectrum multiple access SSMA Statistical multiplexor Passive optical network Enabling technologies Linear pulse code modulation Nomenclature EV DO Rev B G PON Network elements MIL STD 1553 Time multiplexing TDM versus packet mode communication EVDO Digital transmission Applications and history Dense WDM Wavelength converting transponders Multiple access Time division multiple access TDMA Iridium Satellite LLC Air interface GPON Network elements Plugboard Wiring of unit record equipment Evolution Data Optimized MII videocassette format Recording method Statistical time division multiplexing STDM and much more An Experimental Study of Time-division Multiplexing Involving Pulse Slope Modulation and Pulse Amplitude Modulation William David Dobbs,1969 *The Multiplexer Reference Manual* Gilbert Held,1992-12-15 Details the operational characteristics of these data communications devices how to use them effectively and the available features which can be used to assist in the acquisition process Covers the four fundamental types of multiplexers focusing on the statistical and T1 variety Provides readers with insight into an understanding of when and when not to use multiplexers *Time Division Multiplexing of Digital Signals* Wayne F. Westgate,1968 Pulse Code Modulation DEGEM Systems Ltd,1976 *Asynchronous Time Division Multiplexing* Bernhardt Wesenberg (University of Manitoba student),1977

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