LPC2148 PWM Programming

In this tutorial, we are going to discuss the PWM module of LPC2148. First, we will see how to configure the PWM registers to generate signals of required PWM, at the end, we will see how to use the Explore Emdedded PWM library.

LPC2148 PWM Module

LPC2148 has 6 PWM output pins which can be used as 6-Single edged or 3-Double edged. There as seven-match registers to support these 6-PWM output signals. Below block diagram shows the PWM pins and the associated Match (Duty Cycle) registers.

PWM Channel	Port Pin	Pin Functions	Associated PINSEL Register	Corresponding Match Register
PWM_1	P0.0	0-GPIO, 1-TXD0, 2-**PWM1**,	0,1 bits of PINSEL0	PWMMR1
PWM_2	P0.7	0-GPIO, 1-SSEL0, 2-**PWM2**, 3-EINT2	14,15 bits of PINSEL0	PWMMR2
PWM_3	P0.1	0-GPIO, 1-RXD0, 2-**PWM3**, 3-EINT0	2,3 bits of PINSEL0	PWMMR3
PWM_4	P0.8	0-GPIO, 1-TXD1, 2-**PWM4**,	16,17 bits of PINSEL0	PWMMR4
PWM_5	P0.21	0-GPIO, 1-**PWM5**, 2-CAP1.3,	10,11 bits of PINSEL1	PWMMR5
PWM_6	P0.9	0-GPIO, 1-RXD1, 2-**PWM6**, 3-EINT3	18,19 bits of PINSEL0	PWMMR6

Lpc2148 Programming Guide

Pierce Hazelton

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C++ Programming Guide C. J. Silverio,Silicon Graphics, Inc,1993 **HC11** Motorola, Inc,1993* **Wang 720** Wang Laboratories,1970 **RC Basic** Pierce Hazelton,1977 LabTutor John K. Eaton,Laura Eaton,1995 LabTutor a combined book and software system provides an introduction to the principles and practice of laboratory data acquisition experimental control and data processing using any hardware software system It includes specific instructions and examples on how to use LabVIEW a graphical programming language from National Instruments used for developing automated instrumentation systems LabTutor allows new users to make effective use of laboratory computers with as little as ten hours of effort and to become accomplished practitioners with less than forty hours of effort The printed version offers the convenience and readability of an ordinary book while the hypertext version includes sound and animation to clarify certain concepts and offers the advantage of rapid searching making it useful as an online manual LabTutor can be used as a primary package for a course on laboratory computers as a supplement in traditional laboratory courses or as a self guided tutorial for those learning to use laboratory computers on their own **Programming tool The Ultimate Step-By-Step Guide** Gerardus Blokdyk,2018 Programming tool The Ultimate Step By Step Guide Personal programming Roger F. The Staff of the Texas Instruments Learning Center Farish,Charles D. O'Grady,Ralph A. Oliva,Texas Instruments Incorporated. Learning Center,1979 **Programming Basics and Troubleshooting : Instructor's Guide** Fines, Jeannette A,Lab-Volt (Québec) Ltd. Quintech Division,1991 **HC11** Motorola, Inc,1990 **HC11** ,1993 **Programming Guide (B) Maple V.** Waterloo Maple Software,1995 *Programmer Guide to FPGA and Verilog* Terry Loesch,2020-10-03 Programmers Guide for FPGA and Verilog is specifically written with a software developer in mind The book is an invaluable resource for understanding the power and applicability of FPGAs and how to utilize the Verilog language to develop fast efficient parallel designs for real world applications Using examples of functional code it provides the building blocks and discusses the pitfalls of FPGA development enabling the developer to quickly become proficient and bypass many of the common FPGA mistakes This book is written to help a software developer with the following Understand differences inherent in a FPGA Understand Verilog s simulation and synthesis constructs Point out pitfalls that make the transition to FPGA development difficult Design parallel applications that utilize the power of the FPGA Provide Verilog coding examples for commonly used programming concepts Describe best practices for improving readability and maintainability **Making Tracks Into Programming** Texas Instruments Incorporated. Learning Center,1977 2009, آ"سسد سسسسس سسسسسس سسسسس **Model 204 Programming Guidelines** United States. Air Force. Intelligence Service,Denver Research Institute,1986 TI486DX4 Microprocessor SM Code Programming Texas Instruments Incorporated,1995 **Logic Programming with LPLO: an Introductory Guide** Kungl. Tekniska högskolan. Department of Telecommunication and Computer Systems,T. Sjoeland,1984 Silliac Programming Adolph Basser Computing Laboratory,1956 **TI486DX4 Microprocessor SM Mode**

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1. This book is structured into several chapters, namely:

   - Chapter 1: Introduction to Lpc2148 Programming Guide
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   - Chapter 3: Lpc2148 Programming Guide in Everyday Life
   - Chapter 4: Lpc2148 Programming Guide in Specific Contexts
   - Chapter 5: Conclusion

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