

# Model Name : H410M D2VX SI

SHEET

TITLE

01	COVER SHEET
02	BOM & PCB MODIFY HISTORY
03	BLOCK DIAGRAM
04	CPU_LGA1151-A
05	CPU_LGA1151-B-DDR4
06	CPU_LGA1151-C
07	CPU_LGA1150-D
08	DDR4 CHANNEL A
09	DDR4 CHANNEL B
10	PCH_CLK BUFFER
11	PCH_DMI,USB,PCIE
12	PCH_MISC
13	PCH SATA,PCIE,SATA_EXPRESS
14	PCH PWR
15	PCH GND
16	ITE 8686 LPC IO
17	HWM
18	FAN CTRL--SIO
19	BIOS
20	CEC
21	PCI EXPRESS*16 SLOT
22	PCI EXPRESS*1 SLOT

SHEET

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31	ISI
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33	RT8
34	RT8
35	RT8
36	DIS
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39	KB_
40	DVI
41	RTL
42	RTL
43	REF
44	USE
45	Rea
46	REF
47	ADC
48	R_U
49	R_U
50	UDA

# Si Schematic Diagram

**Yiwen Rong**

A red circular graphic with a gradient, appearing as a stylized arrow or a decorative element, located to the right of the author's name.

## Si Schematic Diagram:

Handbook of Integrated Circuit Industry Yangyuan Wang, Min-Hwa Chi, Jesse Jen-Chung Lou, Chun-Zhang Chen, 2023-11-27 Written by hundreds of experts who have made contributions to both enterprise and academic research, these excellent reference books provide all necessary knowledge of the whole industrial chain of integrated circuits and cover topics related to the technology evolution, trends, fabrication, applications, new materials, equipment, economy, investment, and industrial developments of integrated circuits. Especially, the coverage is broad in scope and deep enough for all kinds of readers being interested in integrated circuit industry. Remarkable data collection, update, marketing, evaluation, enough working knowledge of integrated circuit fabrication, clear and accessible category of integrated circuit products, and good equipment insight, explanation, etc. can make general readers build up a clear overview about the whole integrated circuit industry. This encyclopedia is designed as a reference book for scientists and engineers actively involved in integrated circuit research and development field. In addition, this book provides enough guide lines and knowledges to benefit enterprisers being interested in integrated circuit industry.

**Chemical vapor deposition growth** United States. Department of Energy, 1977

**High Speed, Low Driving Voltage Vertical Cavity Germanium-silicon Modulators for Optical Interconnect** Yiwen Rong, 2010 Information processing requires interconnects to carry information from one place to another. Optical interconnects between electronics systems have attracted significant attention and development for a number of years because optical links have demonstrated potential advantages for high speed, low power, and interference immunity. With increasing system speed and greater bandwidth requirements, the distance over which optical communication is useful has continually decreased to chip-to-chip and on-chip levels. Monolithic integration of photonics and electronics will significantly reduce the cost of optical components and further combine the functionalities of chips on the same or different boards or systems. Modulators are one of the fundamental building blocks for optical interconnects. Previous work demonstrated modulators based upon the quantum confined Stark effect (QCSE) in SiGe p-i-n devices with strained Ge/SiGe multi-quantum well (MQW) structures in the i-region. While the previous work demonstrated the effect, it did not examine the high speed aspects of the device, which is the focus of this dissertation. High speed modulation and low driving voltage are the keys for the device's practical use. At lower optical intensity operation, the ultimate limitation in speed will be the RC time constant of the device itself. At high optical intensity, the large number of photo-generated carriers in the MQW region will limit the performance of the device through photo-carrier related voltage drop and exciton saturation. In previous work, the devices consist of MQWs configured as p-i-n diodes. The electric field induced absorption change by QCSE modulates the optical transmission of the device. The focus of this thesis is the optimization of MQW material deposition, minimization of the parasitic capacitance of the probe pads for high speed, low voltage, and high contrast ratio operation. The design, fabrication, and high speed characterization of devices of different sizes with different bias voltages are presented. The device fabrication

is based on processes for standard silicon electronics and is suitable for mass production This research will enable efficient transceivers to be monolithically integrated with silicon chips for high speed optical interconnects We demonstrated a modulator with an eye diagram of 3 125GHz a small driving voltage of 2 5V and an f3dB bandwidth greater than 30GHz Carrier dynamics under ultra fast laser excitation and high speed photocurrent response are also investigated

**The Physics of SiO<sub>2</sub> and Its Interfaces** Sokrates T. Pantelides, 2013-09-17 The Physics of SiO<sub>2</sub> and Its Interfaces covers the proceedings of the International Topical Conference on the Physics of SiO<sub>2</sub> and its Interfaces held at the IBM Thomas J Watson Research Center Yorktown Heights New York on March 22 24 1978 The book focuses on the properties reactions transformations and structures of silicon dioxide SiO<sub>2</sub> The selection first discusses the electronic properties of vitreous SiO<sub>2</sub> and small polaron formation and motion of holes in a SiO<sub>2</sub> Discussions focus on mobility edges and polarons deep states in the gap and excitons The text also ponders on field dependent hole and exciton transport in SiO<sub>2</sub> and electron emission from SiO<sub>2</sub> into vacuum The publication takes a look at the electronic structures of crystalline and amorphous SiO<sub>2</sub> band structures and electronic properties of SiO<sub>2</sub> and optical absorption spectrum of SiO<sub>2</sub> The text also tackles chemical bond and related properties of SiO<sub>2</sub> topological effects on the band structure of silica and properties of localized SiO<sub>2</sub> clusters in layers of disordered silicon on silver The selection is a good reference for physicists and readers interested in the physics of silicon dioxide

**Infrared Antireflective and Protective Coatings** Jiaqi Zhu, Jiecai Han, 2018-03-05 This book is a comprehensive introduction on infrared anti transparent materials and their applications in anti reflective and protective coatings Optical mechanical and thermal properties and preparations of various kinds of films such as amorphous diamond films germanium carbide films boron phosphide films alumina films and yttrium oxide film are discussed in detail making it suitable for material scientists and industrial engineers

**Biosensors and Molecular Technologies for Cancer Diagnostics** Keith E. Herold, Avraham Rasooly, 2012-05-29 Bridging the gap between research and clinical application Biosensors and Molecular Technologies for Cancer Diagnostics explores the use of biosensors as effective alternatives to the current standard methods in cancer diagnosis and detection It describes the major aspects involved in detecting and diagnosing cancer as well as the basic elements of biosensors and their applications in detection and diagnostics The book addresses cancer molecular diagnostics including genomic and proteomic approaches from the perspective of biosensors and biodetection It explains how to measure and understand molecular markers using biosensors and discusses the medical advantages of rapid and accurate cancer diagnostics It also describes optical electrochemical and optomechanical biosensor technologies with a focus on cancer analysis and the clinical utility of these technologies for cancer detection diagnostics prognostics and treatment Making biosensor technology more accessible to molecular biologists oncologists pathologists and engineers this volume advances the integration of this technology into mainstream clinical practice Through its in depth coverage of a range of biosensors the book shows how they can play instrumental roles in the early molecular diagnosis of

cancer      **Physics for Computer Science Students** Narciso Garcia, Arthur Damask, 2012-12-06 This text is the product of several years effort to develop a course to fill a specific educational gap It is our belief that computer science students should know how a computer works particularly in light of rapidly changing technologies The text was designed for computer science students who have a calculus background but have not necessarily taken prior physics courses However it is clearly not limited to these students Anyone who has had first year physics can start with Chapter 17 This includes all science and engineering students who would like a survey course of the ideas theories and experiments that made our modern electronics age possible This textbook is meant to be used in a two semester sequence Chapters 1 through 16 can be covered during the first semester and Chapters 17 through 28 in the second semester At Queens College where preliminary drafts have been used the material is presented in three lecture periods 50 minutes each and one recitation period per week 15 weeks per semester The lecture and recitation are complemented by a two hour laboratory period per week for the first semester and a two hour laboratory period biweekly for the second semester      Organic Thin-Film Transistor Applications Brajesh Kumar Kaushik, Brijesh Kumar, Sanjay Prajapati, Poornima Mittal, 2016-09-15 Text provides information about advanced OTFT Organic thin film transistor structures their modeling and extraction of performance parameters materials of individual layers their molecular structures basics of pi conjugated semiconducting materials and their properties OTFT charge transport phenomena and fabrication techniques It includes applications of OTFTs such as single and dual gate OTFT based inverter circuits along with bootstrap techniques SRAM cell designs based on different material and circuit configurations light emitting diodes LEDs Besides this application of dual gate OTFT in the logic gate shift register Flip Flop counter circuits will be included as well      *Handbook of Thin Films* Hari Singh Nalwa, 2001-11-17 This five volume handbook focuses on processing techniques characterization methods and physical properties of thin films thin layers of insulating conducting or semiconductor material The editor has composed five separate thematic volumes on thin films of metals semimetals glasses ceramics alloys organics diamonds graphites porous materials noncrystalline solids supramolecules polymers copolymers biopolymers composites blends activated carbons intermetallics chalcogenides dyes pigments nanostructured materials biomaterials inorganic polymer composites organoceramics metallocenes disordered systems liquid crystals quasicrystals and layered structures Thin films is a field of the utmost importance in today's materials science electrical engineering and applied solid state physics with both research and industrial applications in microelectronics computer manufacturing and physical devices Advanced high performance computers high definition TV digital camcorders sensitive broadband imaging systems flat panel displays robotic systems and medical electronics and diagnostics are but a few examples of miniaturized device technologies that depend the utilization of thin film materials The Handbook of Thin Films Materials is a comprehensive reference focusing on processing techniques characterization methods and physical properties of these thin film materials      **Proceedings of Asia International Conference on Tribology 2018** Mohd Fadzli Bin

Abdollah,2018-09-17 This ebook is a compilation of 234 papers presented at the 6th Asia International Conference on Tribology ASIATrib2018 Kuching Sarawak Malaysia from 17 to 20 September 2018      *3D and Circuit Integration of MEMS*

Masayoshi Esashi,2021-03-16 3D and Circuit Integration of MEMS Explore heterogeneous circuit integration and the packaging needed for practical applications of microsystems MEMS and system integration are important building blocks for the More Than Moore paradigm described in the International Technology Roadmap for Semiconductors And in 3D and Circuit Integration of MEMS distinguished editor Dr Masayoshi Esashi delivers a comprehensive and systematic exploration of the technologies for microsystem packaging and heterogeneous integration The book focuses on the silicon MEMS that have been used extensively and the technologies surrounding system integration You ll learn about topics as varied as bulk micromachining surface micromachining CMOS MEMS wafer interconnection wafer bonding and sealing Highly relevant for researchers involved in microsystem technologies the book is also ideal for anyone working in the microsystems industry It demonstrates the key technologies that will assist researchers and professionals deal with current and future application bottlenecks Readers will also benefit from the inclusion of A thorough introduction to enhanced bulk micromachining on MIS process including pressure sensor fabrication and the extension of MIS process for various advanced MEMS devices An exploration of epitaxial poly Si surface micromachining including process condition of epi poly Si and MEMS devices using epi poly Si Practical discussions of Poly SiGe surface micromachining including SiGe deposition and LP CVD polycrystalline SiGe A concise treatment of heterogeneously integrated aluminum nitride MEMS resonators and filters Perfect for materials scientists electronics engineers and electrical and mechanical engineers 3D and Circuit Integration of MEMS will also earn a place in the libraries of semiconductor physicists seeking a one stop reference for circuit integration and the practical application of microsystems      *Spintronics for Next Generation Innovative Devices* Katsuaki Sato,Eiji Saitoh,2015-07-22

Spintronics short for spin electronics or spin transport electronics exploits both the intrinsic spin of the electron and its associated magnetic moment in addition to its fundamental electronic charge in solid state devices Controlling the spin of electrons within a device can produce surprising and substantial changes in its properties Drawing from many cutting edge fields including physics materials science and electronics device technology spintronics has provided the key concepts for many next generation information processing and transmitting technologies This book discusses all aspects of spintronics from basic science to applications and covers magnetic semiconductors topological insulators spin current science spin caloritronics ultrafast magnetization reversal magneto resistance effects and devices spin transistors quantum information devices This book provides a comprehensive introduction to Spintronics for researchers and students in academia and industry      **Thin Film Transistor Technologies** Yue Kuo,1999      **Diamond Science and Technology, Vol. 1** Aleksandr Mikhaïlovich Prokhorov,V. Alexander Stefan,2002      **Nanomaterials for Electrochemical Energy Storage Devices** Poulomi Roy,S. K. Srivastava,2019-10-14 Energy storage devices are considered to be an important field of interest for

researchers worldwide Batteries and supercapacitors are therefore extensively studied and progressively evolving The book not only emphasizes the fundamental theories electrochemical mechanism and its computational view point but also discusses recent developments in electrode designing based on nanomaterials separators fabrication of advanced devices and their performances Physics of Semiconductor Devices V. K. Jain, Abhishek Verma, 2013-11-27 The purpose of this workshop is to spread the vast amount of information available on semiconductor physics to every possible field throughout the scientific community As a result the latest findings research and discoveries can be quickly disseminated This workshop provides all participating research groups with an excellent platform for interaction and collaboration with other members of their respective scientific community This workshop s technical sessions include various current and significant topics for applications and scientific developments including Optoelectronics VLSI ULSI Technology Photovoltaics MEMS Sensors Device Modeling and Simulation High Frequency Power Devices Nanotechnology and Emerging Areas Organic Electronics Displays and Lighting Many eminent scientists from various national and international organizations are actively participating with their latest research works and also equally supporting this mega event by joining the various organizing committees Metal-Semiconductor Schottky Barrier Junctions and Their Applications B.L. Sharma, 2013-11-11 The present day semiconductor technology would be inconceivable without extensive use of Schottky barrier junctions In spite of an excellent book by Professor E H Rhoderick 1978 dealing with the basic principles of metal semiconductor contacts and a few recent review articles the need for a monograph on Metal Semiconductor Schottky Barrier Junctions and Their Applications has long been felt by students researchers and technologists It was in this context that the idea of publishing such a monograph by Mr Ellis H Rosenberg Senior Editor Plenum Publishing Corporation was considered very timely Due to the numerous and varied applications of Schottky barrier junctions the task of bringing it out however looked difficult in the beginning After discussions at various levels it was deemed appropriate to include only those typical applications which were extremely rich in R D and still posed many challenges so that it could be brought out in the stipulated time frame Keeping in view the larger interest it was also considered necessary to have the different topics of Schottky barrier junctions written by experts **Advances in Nanomaterials and Processing** Byung Tae Ahn, Hyeong Tag Jeon, Bo Young Hur, Ki Bae Kim, Jong Wan Park, 2007-06-15 IUMRS ICA 2006 September 10 14 2006 Jeju Korea **Electronic Structure of Metal-Semiconductor Contacts** Winfried Mönch, 2012-12-06 Interface and surface science have been important in the development of semiconductor physics right from the beginning on Modern device concepts are not only based on p n junctions which are interfaces between regions containing different types of dopants but take advantage of the electronic properties of semiconductor insulator interfaces heterojunctions between distinct semiconductors and metal semiconductor contacts The latter ones stood almost at the very beginning of semiconductor physics at the end of the last century The rectifying properties of metal semiconductor contacts were first described by Braun in 1874 A physically correct explanation

of unilateral conduction as this deviation from Ohm's law was called could not be given at that time. A prerequisite was Wilson's quantum theory of electronic semiconductors which he published in 1931. A few years later in 1938 Schottky finally explained the rectification at metal semiconductor contacts by a space charge barrier. [Handbook of Silicon Photonics](#) Laurent Vivien, Lorenzo Pavesi, 2016-04-19 The development of integrated silicon photonic circuits has recently been driven by the Internet and the push for high bandwidth as well as the need to reduce power dissipation induced by high data rate signal transmission. To reach these goals efficient passive and active silicon photonic devices including waveguide modulators, photodetectors,



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