

The table below shows output drive and input loading characteristics for selected TTL logic families. Calculate the number of LS (Low-Power Schottky) gates that an ALS (Advanced Low-Power Schottky) gate can drive when its output is LOW.

	Device Family	Output Drive*	Input Loading
TTL	Standard TTL	$I_{OH} = 400 \mu A$ $I_{OL} = 16 mA$	$I_{IH} = 40 \mu A$ $I_{IL} = 1.6 mA$
	Low-Power Schottky	$I_{OH} = 400 \mu A$ $I_{OL} = 8 mA$	$I_{IH} = 20 \mu A$ $I_{IL} = 400 \mu A$
	Advanced Low-Power Schottky	$I_{OH} = 400 \mu A$ $I_{OL} = 8 mA$	$I_{IH} = 20 \mu A$ $I_{IL} = 100 \mu A$
	FAST Fairchild Advanced Schottky TTL	$I_{OH} = 1 mA$ $I_{OL} = 20 mA$	$I_{IH} = 20 \mu A$ $I_{IL} = 0.6 mA$

# Fast And LS TTL Data Low Power Schottky TTL Data

**Motorola Semiconductor Products Inc.**  
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## **Fast And LS Ttl Data Low Power Schottky Ttl Data:**

1981 Supplement to the TTL Data Book for Design Engineers, Second Edition Texas Instruments Incorporated. Semiconductor Group,1981    **Motorola FAST and LS** Motorola Semiconductor Products Inc. Technical Information Center,1986    *NASA Technical Memorandum ,1981*    Schottky and Low-power Schottky Data Book Including Digital Signal Processing Handbook Advanced Micro Devices (Firm),1978    **Signal Integrity and Radiated Emission of High-Speed Digital Systems** Spartaco Caniggia,Francescaromana Maradei,2008-11-20 Before putting digital systems for information technology or telecommunication applications on the market an essential requirement is to perform tests in order to comply with the limits of radiated emission imposed by the standards This book provides an investigation into signal integrity SI and electromagnetic interference EMI problems Topics such as reflections crosstalk switching noise and radiated emission RE in high speed digital systems are covered which are essential for IT and telecoms applications The highly important topic of modelling is covered which can reduce costs by enabling simulation data to demonstrate that a product meets design specifications and regulatory limits According to the new European EMC directive this can help to avoid the expensive use of large semi anechoic chambers or open area test sites for radiated emission assessments Following a short introduction to signalling and radiated interference in digital systems the book provides a detailed characterization of logic families in terms of static and dynamic characteristic useful for modelling techniques Crosstalk in multi coupled line structures are investigated by analytical graphical and circuit based methods and techniques to mitigate these phenomena are provided Grounding filtering and shielding with multilayer PCBs are also examined and design rules given Written by authors with extensive experience in industry and academia Explains basic conceptual problems from a theoretical and practical point of view by using numerous measurements and simulations Presents models for mathematical and SPICE like circuit simulators Provides examples of using full wave codes for SI and RE investigations Companion website containing lists of codes and sample material Signal Integrity and Radiated Emission of High Speed Digital Systems is a valuable resource to industrial designers of information technology telecommunication equipment and automation equipment as well as to development engineers It will also be of interest to managers and designers of consumer electronics and researchers in electronics    **Digital Electronics** John Morris,2013-09-05 An essential companion to John C Morris s Analogue Electronics this clear and accessible text is designed for electronics students teachers and enthusiasts who already have a basic understanding of electronics and who wish to develop their knowledge of digital techniques and applications Employing a discovery based approach the author covers fundamental theory before going on to develop an appreciation of logic networks integrated circuit applications and analogue digital conversion A section on digital fault finding and useful ic data sheets completes the book    The TTL Data Book Texas Instruments Incorporated,1984    *Programming the Parallel Port* Dhananjay Gadre,1998-01-02 Why purchase expensive add on cards or bus interfaces when you can develop effective and

economical data acquisition and process controls using C programs Using the under employed printer adapter that is the parallel port of your PC you can turn your computer into a powerful tool for developing microprocessor applications Learn how to build a **Transmitting Data Without Interference** Hans Heublein,1998-06-15 Heublein Hans Transmitting Data without Interference Power supply applications found within building installations and in industrial measurement and process control increasingly overlap with those of communications technology Therefore planners and electricians must understand and consider the particular fundamentals of both disciplines This book comprehensively explains the various mechanisms of interference arising during signal and data transmission between sender and receiver modules as well as within the entire transmission system It concentrates thereby largely on the aspects of electromagnetic compatibility This book is geared towards the practitioner It aids in determining choosing and installing data transmission cables within building and industrial installations It also provides electronic system designers with insight into the relationship between transmission electronics and a cable's construction Contents Symmetrical and asymmetrical transmission modes Bus systems Static and dynamic immunity to interference Electromagnetic compatibility Parameters of signal transmission cables Selection of cables for signal and data transmission Suggestions for installing cables Standards and specifications

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web durch den erhöhten tsh spiegel im blut nach jodmangel vergrößern und vermehren sich die schildrüsenzellen dadurch entsteht eine gutartige neubildung das sogenannte adenom bösartige neubildungen sind sehr selten in weniger als einem prozent der Fälle steckt hinter dem schildrüsenknoten ein karzinom

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kropf kann zu schweren folgen für den patienten führen

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web ein schildrüsenknoten bezeichnet die morphologische veränderung der schildrüse die sich im hals befindet und für wichtige stoffwechselverfahren sowie für die speicherung von jod und der produktion lebenswichtiger hormone verantwortlich ist

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web zytopathologie schildrüsenknoten sind zwar sehr häufig die angst dass es sich dabei um krebs handelt ist in den allermeisten fällen jedoch unbegründet trotzdem sollten sie schildrüsenknoten untersuchen lassen um zu erkennen ob sie gutartig sind beobachtet werden müssen oder behandelt weil sie bösartig sind

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