

Design Resources - Analog KVM Switch Solution

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Design Resources

Application Notes

Supplier	Device	Title	Date Published
ADI	ADSP-BF561	AN-813: Interfacing the ADSP-BF533/ADSP-BF561 Blackfin® Processors to High Speed Parallel ADCs	
ADI	ADSP-BF562	EE-314: Booting the ADSP-BF561 Blackfin Processor (Rev 1, 05/2007)	May/07
ADI	ADSP-BF563	EE-293: Estimating Power for ADSP-BF561 Blackfin Processors (Rev 2, 06/2007)	Jun/07
ADI	ADSP-BF564	EE-272: Managing Multiple DXEs on ADSP-BF561 Blackfin Processors (Rev 1, 07/2005)	Jul/05
ADI	ADSP-BF565	EE-256: Using the ADSP-BF561 Blackfin Processor as a TFT-LCD Controller (Rev 2, 03/2006)	Mar/06

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ADI	AD8131	AN-584: Using the AD813X Differential Amplifier	
ADI		AN-692: Universal Precision Op Amp Evaluation Board	
ADI		AN-589: Ways to Optimize the Performance of a Difference Amplifier	
Intersil		Mux & Switch	Jul/08
Intersil	EL4543	EL4543 CAT-5 CMV Offset Network Recovers Usable CMV Range at Receiver	Sep/06
Intersil		Transmitting SXGA Video Signal through 1kft (300m) CAT-5 Cable	Jan/08
Intersil		CAT-5 Video Transmission: Troubleshooting and Equalization	Aug/07
Intersil	ISL59446	Using the EL4342 and ISL59446 Triple Video MUX-Amps as A/V Source Selectors	Jul/06
Intersil		Automatic Digital Cable Compensation for Long Cat-5 Cables	Jun/09
Intersil		Video Cable Drivers Save Board Space, Increase Bandwidth	Oct/04
Intersil		Video Multiplexer Delivers Lower Signal Degradation	Oct/04
Intersil		Video Amplifier with Sync Stripper and DC Restore	Oct/04
Intersil	EL5108	EL5108 Video Buffer Forms Differential Line Driver/Receiver	Oct/04
Intersil		Single-Ended To Differential Twisted Pair Driver	May/97
Maxim		8:1 Mux-Amps Form Large Multiplane Mux Structures	Jun/06
Maxim	MAX4312	Application Note 1953: 8:1 Mux-Amps Form Large Multiplane Mux Structures	Mar/03

National Semiconductor		AN-1719: Application Note 1719 Noise Figure Analysis Fully Differential Amplifier	Sep/07
National Semiconductor	LMH6733	AN-1822: Application Note 1822 LMH6733 High Definition Video Transmission Over CAT5	Jan/09
Texas Instruments	TMS320DM6441	TMS320DM6441 Power Consumption Summary Application Report	Apr/08
Texas Instruments	TMS320DM6467	TMS320DM6467 Universal Serial Bus Upstream Device Compliance Testing	Jan/08
Texas Instruments	TMS320DM6467	Using the TMS320DM6467 DMSoC Bootloader (Rev. C)	May/08
Texas Instruments	TMS320DM6467	HDMI Transmitter/ Receiver Support on TMS320DM6467	May/08
Texas Instruments	TMS320DM6467	TMS320DM6467 SoC Architecture and Throughput Overview (Rev. B)	Jun/09
Texas Instruments	TMS320DM6441	TMS320DM644x DMSoC Video Processing Back End (VPBE) User's Guide (Rev. C)	Apr/08
Texas Instruments	TMS320DM6441	TMS320DM644x DMSoC Enhanced Direct Memory Access (EDMA) Controller User's Guide (Rev. D)	Feb/08
Texas Instruments	TMS320DM6441	TMS320DM644x DMSoC Video Processing Front End (VPFE) User's Guide (Rev. E)	Nov/08
Texas Instruments	TMS320DM6467	TMS320DM646x DMSoC Video Port Interface (VPIF) User's Guide (Rev. C)	Jun/09
Texas Instruments	TMS320DM6467	TMS320DM646x DMSoC Video Data Conversion Engine (VDCE) User's Guide	Dec/07

Design Tips & Tricks

Supplier	Device	Design Tips & Tricks Title	Date Published
Intersil		Mux & Switch	Jul/08
Texas Instruments	TMS320DM6441	TMS320DM644x DMSoC Video Processing Back End (VPBE) User's Guide (Rev. C)	Apr/08
Texas Instruments	TMS320DM6441	TMS320DM644x DMSoC Enhanced Direct Memory Access (EDMA) Controller User's Guide (Rev. D)	Feb/08
Texas Instruments	TMS320DM6441	TMS320DM644x DMSoC Video Processing Front End (VPFE) User's Guide (Rev. E)	Nov/08
Texas Instruments	TMS320DM6467	TMS320DM646x DMSoC Video Port Interface (VPIF) User's Guide (Rev. C)	Jun/09
Texas Instruments	TMS320DM6467	TMS320DM646x DMSoC Video Data Conversion Engine (VDCE) User's Guide	Dec/07

Evaluation Kits

Supplier	Device	EVKs Part Number	Evaluation Kits Info	Date Published
ADI	ADSP-BF561		EZ-KIT Lite Evaluation Kit for ADSP-BF561 Blackfin Processor	
ADI			Differential Driver Evaluation Board	
ADI			Differential Receiver Evaluation Board	Jan/03
Maxim	MAX4447		MAX4447EVKIT, MAX4448EVKIT, MAX4449EVKIT	Oct/99
Maxim	MAX4444		MAX4444EVKIT	Oct/99

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Maxim	MAX4313	MAX4313EVKIT	Evaluation Kit for the MAX4310, MAX4313	Apr/99
Maxim	MAX4029	MAX4029EVKIT	Evaluation Kit for the MAX4029	Aug/08
National Semiconductor	LMH6550		LMH730154 SOIC-8 Differential Amplifier Evaluation Board - Included with LMH6550MA	Dec/04
National Semiconductor	LMH6552	LMH6552SDEVAL	AN-1743: Application Note 1743 LMH6552SDEVAL High Speed Differential Amplifier Evaluation Board	Jun/08
National Semiconductor	LMH6553	LMH6553SDEVAL	AN-1851: Application Note 1851 LMH6553SDEVAL High Speed Differential Amplifier Evaluation Board	Jun/08
National Semiconductor	LMH6574		LMH730276 SOIC-14 4:1 Multiplexer Evaluation Board	May/03
Texas Instruments	TMS320DM6441		Encode Demo for the DaVinci DVEVM/ DVSDK 1.2 (Rev. A)	Jun/07
Texas Instruments	TMS320DM6467		EncodeDecode Demo for the DaVinci DVEVM/DVSDK 1.2 (Rev. A)	Jun/07
Texas Instruments	TMS320DM6467		Decode Demo for the DaVinci DVEVM/ DVSDK 1.2 (Rev. A)	Jun/07
Texas Instruments	TMS320DM6467		TMS320DM6467 DVEVM v2.0 Getting Started Guide (Rev. D)	Dec/08

Spice Model

Supplier	Device	Spice Model Title
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ADI	AD8131	AD8131 SPICE Macro-Model Maximum Values Rev A, 10/2000
ADI	AD8131	AD8131 SPICE Macro-Model Typical Values Rev A, 10/2000
ADI	AD8133	AD8133 SPICE Macro Model, Rev 1.0, 8/2007
ADI	AD8146	AD8146 SPICE Macro Model, Rev B, 5/2007
ADI	AD8147	AD8147 SPICE Macro Model, Rev 1.0, 8/2007
ADI	AD8148	AD8148 SPICE Macro Model, Rev 1.0, 8/2007
ADI	AD8130	AD8130 SPICE Macro-Model, Rev PrA, TRW, 5/2003
ADI	AD8021	AD8021 SPICE Macro-Model Rev. D, TRW 10/2001
ADI	AD8036AN	AD8036AN SPICE Macro-Model Rev B, SMR/ADI, 1/22/99
ADI	AD8038	AD8038/AD8039 SPICE Macro-Model, 3/ 2002
ADI	AD8041	AD8041A SPICE Macro-Model Rev A, 9/96
ADI	AD8042	AD8042A SPICE Macro-Model, Rev A, 9/96
ADI	AD8044	AD8044A SPICE Macro-Model Rev B, 9/96
ADI	AD8045	AD8045m2 SPICE Macro Model, Rev 0, 2/2007
ADI	AD8047	AD8047 SPICE Macro-Model Rev.1, 11/97
ADI	AD8051	AD8051/AD8052/AD8054 SPICE Macro-Model Rev 0, 9/98
ADI	AD8055	AD8055AN SPICE Macro-Model Rev A, SMR/ADI, 8/97
ADI	AD8056	AD8056 SPICE Macro-Model, Rev A, SMR, 8/97
ADI	AD8057	AD8057/AD8058 SPICE Macro-Model
ADI	AD8061	AD8061 SPICE Macro-Model Rev 0, 9/02

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ADI	AD8062	AD8062 SPICE Macro-Model, Rev 0, MM, 9/02
ADI	AD8079A	AD8079A SPICE Macro-Model
ADI	AD8079B	AD8079B SPICE Macro-Model
ADI	AD8091	AD8091 SPICE Macro-Model Rev. A, 2/2002
ADI	AD8092	AD8092 SPICE Macro-Model Rev. A, 2/2002
ADI	AD8130	AD8130 SPICE Macro-Model, Rev PrA, TRW, 5/2003
ADI	AD8131	AD8131 SPICE Macro-Model Maximum Values Rev A, 10/2000
ADI	AD8131	AD8131 SPICE Macro-Model Typical Values Rev A, 10/2000
ADI	AD8133	AD8133 SPICE Macro Model, Rev 1.0, 8/2007
ADI	AD8145	AD8145 SPICE Macro Model, Rev 1.0, 8/2007
ADI	AD8146	AD8146 SPICE Macro Model, Rev B, 5/2007
ADI	AD8147	AD8147 SPICE Macro Model, Rev 1.0, 8/2007
ADI	AD8148	AD8148 SPICE Macro Model, Rev 1.0, 8/2007
ADI	AD829	AD829 SPICE Macro-Model Rev. A, 9/90
ADI	AD829A	AD829A SPICE Macro-Model Rev. A, 9/90
ADI	AD829J	AD829J SPICE Macro-Model Rev. A, 9/90
ADI	AD829S	AD829S SPICE Macro-Model Rev. A, 9/90
ADI	AD9631AN	AD9631AN SPICE Macro-Model SMR Rev. A, 2/97
ADI	ADA4850	ADA4850 SPICE Macro Model, Rev 1.1, 05/2005
ADI	ADA4851-2	ADA4851-2 SPICE Macro-Model, Rev. 1.1, 03/2005
ADI	ADA4851-4	ADA4851-4 SPICE Macro-Model, Rev1.1, 03/2005

VideoStreaming

Supplier	Device	VideoStreaming Title	Date Published
Texas Instruments	TMS320DM6467	Introduction to Codec Engine	Nov/08
Texas Instruments	TMS320DM365	Introduction to TMS320DM365 Digital Media Processor	Mar 2009
Texas Instruments	TMS320DM335	TMS320DM335 Digital Media Processor Overview	Feb 2009
Texas Instruments	TMS320DM365	TMS320DM365 Digital Media Processor Technical Overview	Mar 2009
Texas Instruments	TMS320DM335	TMS320DM335 Technical Overview	Feb 2009
Texas Instruments	TMS320DM365	TMS320DM365 Digital Media Processor Demonstration	Mar 2009

White Paper

Supplier	Device	White Paper Title	Date Published
ADI	ADSP-BF561	A BDTI Analysis of the Analog Devices ADSP-BF5xx	Jan/04
ADI		Blackfin Car Telematics Platform Brings Low Cost Telematics to the Mass Market	Jan/03
ADI		Device-Based Social Networking	Jan/07
ADI		LabVIEW 1000m Below the Waves: Synchronized Sampling of Autonomous Units Through Sound	Jan/07
ADI		Secure, Field Upgradeable OS Architecture for Blackfin	

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ADI		Security Without Compromise	Jan/05
ADI		Unifying Microarchitecture for Embedded Media Processing	Jan/03
Texas Instruments		Getting the Most Out of Your Image-Processing Pipeline White Paper	Oct/07
Texas Instruments		Reaping the Benefits of SoC Processors for Video Applications White Paper	Mar/07
Texas Instruments		BDTi Analysis of TI Digital Video Evaluation Module Whitepaper	Feb/07
Texas Instruments		Programming Details of Codec Engine for DaVinci Technology Whitepaper	Oct/06
Texas Instruments		The DaVinci Effect: Achieving Digital Video Without Complexity White Paper	Dec/05
Texas Instruments		DaVinci Technology for Digital Video White Paper	Sep/05
Texas Instruments		The Future of Digital Video White Paper	Sep/05
Texas Instruments	TMS320DMDM6467	Transcoding with DM6467 and DaVinci Technology Drives Video Market Evolution	Feb/08