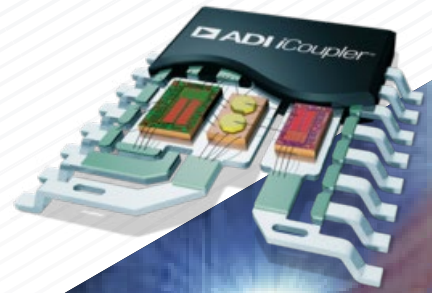




AHEAD OF WHAT'S POSSIBLE™

Digital Isolation and Interface Technology

Selection Guide



VISIT ANALOG.COM/ICOUPLER

ADI iCoupler®

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INNOVATIVE FEATURES:

- ▶ Market Leading Performance
- ▶ Highest Speed and Highest Voltage
- ▶ EMC Performance

BREAKTHROUGH BENEFITS:

- ▶ Data Integrity
- ▶ Protection for People, Assets, and Information
- ▶ Seamless Integration

Standard Digital Isolators

Category	Part Number	Data Rate (max) bps	Prop Delay (max) s	# of Channels	Inputs Side 1	Inputs Side 2	Insulation Rating V rms	CMTI (min) V/us	Iout Isolated Supply (max) A	Vs+ (min) V	Vs+ (max) V	Package
3 rd Generation	ADUM340E	150M	10n	4	4	0	5.7k	100k		2.25	5.5	16 ld SOIC
Low Power	MAX22665	200M	12n	6	5	1	5k	50k		1.71	5.5	16-SOIC_W-300_MIL
Ultra Low Power	MAX22441	10M	70n	4	3	1	5k	200k		1.71	5.5	16-QSOP-150_MIL
Low Power	MAX22664	200M	12n	6	4	2	5k	50k		1.71	5.5	16-SOIC_W-300_MIL
3 rd Generation	ADUM341E	150M	10n	4	3	1	5.7k	100k		2.25	5.5	16 ld SOIC
3 rd Generation	ADUM342E	150M	10n	4	2	2	5.7k	100k		2.25	5.5	16 ld SOIC
Low Power	MAX22165	200M	7n	6	5	1	3k			1.71	5.5	16-QSOP-150_MIL
Low Power	MAX22163	200M	7n	6	3	3	3k			1.71	5.5	16-QSOP-150_MIL
Low Power	MAX22164	200M	7n	6	4	2	3k			1.71	5.5	16-QSOP-150_MIL
Ultra Low Power	MAX22420	10M	51n	2	2	0	5k			1.71	5.5	8-SOIC_N-150_MIL
Ultra Low Power	MAX22421	10M	51n	2	1	1	5k			1.71	5.5	8-SOIC_N-150_MIL
Low Power	MAX22517	1M		2	2	0	3.5k		220μ	2.7	4	8-SOIC_W-300_MIL
Low Power	MAX22519	1M		2	2	0	3.5k		220μ	2.7	4	8-SOIC_W-300_MIL
Ultra Low Power	MAX22820	10M		2			5k			1.71	5.5	8-SOIC_W-300_MIL
Low Power	MAX22166	200M	7n	6	6	0	3k			1.71	5.5	16-QSOP-150_MIL
Low Power	MAX22291	200M	7n	2	1	1	3k			1.71	5.5	8-SOIC_N-150_MIL
Low Power	MAX22444	200M		4	4	0	5k			1.71	5.5	Small-Outline IC, Wide (0.3in)

Standard Digital Isolators (Continued)

Category	Part Number	Data Rate (max) bps	Prop Delay (max) s	# of Channels	Inputs Side 1	Inputs Side 2	Insulation Rating V rms	CMTI (min) V/us	Iout Isolated Supply (max) A	Vs+ (min) V	Vs+ (max) V	Package
Low Power	MAX22565	100M	7n	6	4	2	3.75k			1.71	5.5	20-SSOP-5.30_MM
Low Power	MAX22245	200M		2	2	0	5k			1.71	5.5	8-SOIC_W-300_MIL
Low Power	MAX22246	200M		2	1	1	5k			1.71	5.5	8-SOIC_W-300_MIL
Low Power	MAX22518	1M		2	2	0	3.5k			2.7	4	8-SOIC_W-300_MIL
Low Power	MAX22344	200M		4	4	0	3.75k			1.71	5.5	20-SSOP-5.30_MM
Low Power	MAX22344C	200M		4	4	0	3.75k			1.71	5.5	20-SSOP-5.30_MM
Low Power	MAX22346	200M		4	2	2	3.75k			1.71	5.5	20-SSOP-5.30_MM
Low Power	MAX14434	200M		4	4	0	5k			1.71	5.5	Small-Outline IC, Wide (0.3in)
3 rd Generation	ADUM141ES	150M	13.5n	4	3	1	3.75k	75k		1.7	5.5	CER. FLATPACK WITH LEADS
Low Power	MAX22345	200M		4	3	1	3.75k			1.71	5.5	20-SSOP-5.30_MM
Low Power	MAX22345S	200M		4	3	1	3.75k			1.71	5.5	20-SSOP-5.30_MM
Low Power	MAX22446C	200M		4	2	2	5k			1.71	5.5	Small-Outline IC, Wide (0.3in)
Low Power	MAX22446F	200M		4	2	2	5k			1.71	5.5	Small-Outline IC, Wide (0.3in)
Low Power	MAX22445	200M		4	3	1	5k			1.71	5.5	Small-Outline IC, Wide (0.3in)
Low Power	MAX14483	200M		6	2	4	3.75k			1.71	5.5	20-SSOP-5.30_MM
Low Power	MAX14432B	25M		4	2	2	3.75k			1.71	5.5	Small-Outline IC, Narrow (0.15in)
Low Power	MAX14432C	200M		4	2	2	3.75k			1.71	5.5	Small-Outline IC, Narrow (0.15in)
Low Power	MAX14432E	25M		4	2	2	3.75k			1.71	5.5	Small-Outline IC, Narrow (0.15in)
Low Power	MAX14432F	200M		4	2	2	3.75k			1.71	5.5	Small-Outline IC, Narrow (0.15in)
Low Power	MAX14435	200M		4	3	1	5k			1.71	5.5	Small-Outline IC, Wide (0.3in)
General Purpose	MAX14851	50M		6	2	2	600			3	5.5	16-QSOP-150_MIL
Low Power	MAX12935	25M		2	1	1	5k			1.71	5.5	EVALUATION BOARDS, Small-Outline IC, Wide (0.3in)
Low Power	MAX14436	200M		4	2	2	5k			1.71	5.5	Small-Outline IC, Wide (0.3in)
Functional Isolation	MAX14131	150M		4	3	1	1k			1.71	5.5	16-QSOP-150_MIL

Standard Digital Isolators (Continued)

Category	Part Number	Data Rate (max) bps	Prop Delay (max) s	# of Channels	Inputs Side I	Inputs Side 2	Insulation Rating V rms	CMTI (min) V/us	Iout Isolated Supply (max) A	Vs+ (min) V	Vs+ (max) V	Package
Low Power	MAX14431B	25M		4	3	1	3.75k			1.71	5.5	16-QSOP-150_MIL, Small-Outline IC, Narrow (0.15in)
Low Power	MAX14431C	200M		4	3	1	3.75k			1.71	5.5	16-QSOP-150_MIL, Small-Outline IC, Narrow (0.15in)
Low Power	MAX14431E	25M		4	3	1	3.75k			1.71	5.5	16-QSOP-150_MIL, Small-Outline IC, Narrow (0.15in)
Low Power	MAX14431F	200M		4	3	1	3.75k			1.71	5.5	16-QSOP-150_MIL, Small-Outline IC, Narrow (0.15in)
Low Power	MAX12930B	25M		2	2	0	5k			1.71	5.5	8-SOIC_N-150_MIL
Low Power	MAX12930C	150M		2	2	0	3k			1.71	5.5	8-SOIC_N-150_MIL
Low Power	MAX12930E	25M		2	2	0	5k			1.71	5.5	8-SOIC_N-150_MIL
Low Power	MAX12930F	150M		2	2	0	5k			1.71	5.5	8-SOIC_N-150_MIL
Low Power	MAX14430B	25M		4	4	0	3.75k			1.71	5.5	16-QSOP-150_MIL, Small-Outline IC, Narrow (0.15in)
Low Power	MAX14430C	200M		4	4	0	3.75k			1.71	5.5	16-QSOP-150_MIL, Small-Outline IC, Narrow (0.15in)
Low Power	MAX14430E	25M		4	4	0	3.75k			1.71	5.5	16-QSOP-150_MIL, Small-Outline IC, Narrow (0.15in)
Low Power	MAX14430F	200M		4	4	0	3.75k			1.71	5.5	16-QSOP-150_MIL, Small-Outline IC, Narrow (0.15in)
3 rd Generation	ADUM250N	150M	13n	5	5		5k	75k		1.7	5.5	16-Lead SOIC (Increased Creepage)
3 rd Generation	ADUM251N	150M	13n	5	4	1	5k	75k		1.7	5.5	16-Lead SOIC (Increased Creepage)
3 rd Generation	ADUM252N	150M	13n	5	3	2	5k	75k		1.7	5.5	16-Lead SOIC (Increased Creepage)
3 rd Generation	ADUM260N	150M	13n	6	6		5k	75k		1.7	5.5	16-Lead SOIC (Increased Creepage)
3 rd Generation	ADUM261N	150M	13n	6	5	1	5k	75k		1.7	5.5	16-Lead SOIC (Increased Creepage)
3 rd Generation	ADUM262N	150M	13n	6	4	2	5k	75k		1.7	5.5	16-Lead SOIC (Increased Creepage)
3 rd Generation	ADUM263N	150M	13n	6	3	3	5k	75k		1.7	5.5	16-Lead SOIC (Increased Creepage)

Standard Digital Isolators (Continued)

Category	Part Number	Data Rate (max) bps	Prop Delay (max) s	# of Channels	Inputs Side 1	Inputs Side 2	Insulation Rating V rms	CMTI (min) V/us	Iout Isolated Supply (max) A	Vs+ (min) V	Vs+ (max) V	Package
3 rd Generation	ADUM150N	150M	13n	5	5		3k	75k		1.7	5.5	16-Lead SOIC
3 rd Generation	ADUM151N	150M	13n	5	4	1	3k	75k		1.7	5.5	16-Lead SOIC
3 rd Generation	ADUM152N	150M	13n	5	3	2	3k	75k		1.7	5.5	16-Lead SOIC
Functional Isolation	MAX1413Q	150M		4	4	0	1k			1.71	5.5	16-QSOP-150_MIL
3 rd Generation	ADUM160N	150M	13n	6	6		3k	75k		1.7	5.5	16-Lead SOIC
3 rd Generation	ADUM161N	150M	13n	6	5	1	3k	75k		1.7	5.5	16-Lead SOIC
3 rd Generation	ADUM162N	150M	13n	6	4	2	3k	75k		1.7	5.5	16-Lead SOIC
3 rd Generation	ADUM163N	150M	13n	6	3	3	3k	75k		1.7	5.5	16-Lead SOIC
Space	ADUM7442S	25M	40n	4	2	2	1k	15k		3	5.5	16-Lead FlatPack
Low Power	MAX12931B	25M		2	1	1	5k			1.71	5.5	EVALUATION BOARDS, 8-SOIC_N-150_MIL, Small-Outline IC, Wide (0.3in)
Low Power	MAX12931C	150M		2	1	1	3k			1.71	5.5	EVALUATION BOARDS, 8-SOIC_N-150_MIL, Small-Outline IC, Wide (0.3in)
Low Power	MAX12931E	25M		2	1	1	5k			1.71	5.5	EVALUATION BOARDS, 8-SOIC_N-150_MIL, Small-Outline IC, Wide (0.3in)
Low Power	MAX12931F	150M		2	1	1	5k			1.71	5.5	EVALUATION BOARDS, 8-SOIC_N-150_MIL, Small-Outline IC, Wide (0.3in)
3 rd Generation	ADUM210N	150M	13n	1	1	1	5k	75k		1.7	5.5	8-Lead SOIC (Increased Creepage)
3 rd Generation	ADUM220N	150M	13n	2	2	0	5k	75k		1.7	5.5	16 ld SOIC
3 rd Generation	ADUM221N	150M	13n	2	1	1	5k	75k		1.7	5.5	16 ld SOIC

Standard Digital Isolators (Continued)

Category	Part Number	Data Rate (max) bps	Prop Delay (max) s	# of Channels	Inputs Side 1	Inputs Side 2	Insulation Rating V rms	CMTI (min) V/us	I _{out} Isolated Supply (max) A	V _{s+} (min) V	V _{s+} (max) V	Package
3 rd Generation	ADUM225N	150M	13n	2	2	0	5k	75k		1.7	5.5	8-Lead SOIC (Increased Creepage)
3 rd Generation	ADUM226N	150M	13n	2	1	1	5k	75k		1.7	5.5	8-Lead SOIC (Increased Creepage)
3 rd Generation	ADUM120N	150M	13n	2	2	0	3k	75k		1.7	5.5	8-Lead SOIC
3 rd Generation	ADUM121N	150M	13n	2	1	1	3k	75k		1.7	5.5	8-Lead SOIC
3 rd Generation	ADUM110N	150M	13n	1	1	0	3k	75k		1.7	5.5	8-Lead SOIC
3 rd Generation	ADUM141D	150M	13n	4	3	1	3.75k	75k		1.7	5.5	16-Lead SOIC, 16-Lead QSOP, 16 ld SOIC
3 rd Generation	ADUM141E	150M	13n	4	3	1	3.75k	75k		1.7	5.5	16-Lead SOIC, QSOP 150 MIL, 16-Lead QSOP, 16 ld SOIC
3 rd Generation	ADUM142D	150M	13n	4	2	2	3.75k	75k		1.7	5.5	16-Lead SOIC, 16-Lead QSOP, 16 ld SOIC
3 rd Generation	ADUM142E	150M	13n	4	2	2	3.75k	75k		1.7	5.5	16-Lead SOIC, 16-Lead QSOP, 16 ld SOIC
3 rd Generation	ADUM230D	150M	13n	3	3	0	5k	75k	10μ	1.7	5.5	16-Lead SOIC (Increased Creepage), 16 ld SOIC
3 rd Generation	ADUM230E	150M	13n	3	3	0	5k	75k	10μ	1.7	5.5	16-Lead SOIC (Increased Creepage), 16 ld SOIC
3 rd Generation	ADUM231D	150M	13n	3	2	1	5k	75k	10μ	1.7	5.5	16-Lead SOIC (Increased Creepage), 16 ld SOIC
3 rd Generation	ADUM231E	150M	13n	3	2	1	5k	75k	10μ	1.7	5.5	16-Lead SOIC (Increased Creepage), 16 ld SOIC
3 rd Generation	ADUM240D	150M	13n	4	4	0	5k	75k	10μ	1.7	5.5	16-Lead SOIC (Increased Creepage), 16 ld SOIC
3 rd Generation	ADUM240E	150M	13n	4	4	0	5k	75k	10μ	1.7	5.5	16-Lead SOIC (Increased Creepage), 16 ld SOIC
3 rd Generation	ADUM241D	150M	13n	4	3	1	5k	75k	10μ	1.7	5.5	16-Lead SOIC (Increased Creepage), 16 ld SOIC

Standard Digital Isolators (Continued)

Category	Part Number	Data Rate (max) bps	Prop Delay (max) s	# of Channels	Inputs Side 1	Inputs Side 2	Insulation Rating V rms	CMTI (min) V/us	Iout Isolated Supply (max) A	Vs+ (min) V	Vs+ (max) V	Package
3 rd Generation	ADUM241E	150M	13n	4	3	1	5k	75k	10μ	1.7	5.5	16-Lead SOIC (Increased Creepage), 16 ld SOIC
3 rd Generation	ADUM242D	150M	13n	4	2	2	5k	75k	10μ	1.7	5.5	16-Lead SOIC (Increased Creepage), 16 ld SOIC
3 rd Generation	ADUM242E	150M	13n	4	2	2	5k	75k	10μ	1.7	5.5	16-Lead SOIC (Increased Creepage), 16 ld SOIC
3 rd Generation	ADUM130D	150M	13n	3	3	0	3.75k	75k		1.7	5.5	16-Lead SOIC, 16 ld SOIC
3 rd Generation	ADUM130E	150M	13n	3	3	0	3.75k	75k		1.7	5.5	16-Lead SOIC, 16 ld SOIC
3 rd Generation	ADUM131D	150M	13n	3	2	1	3.75k	75k		1.7	5.5	16-Lead SOIC, 16 ld SOIC
3 rd Generation	ADUM131E	150M	13n	3	2	1	3.75k	75k		1.7	5.5	16-Lead SOIC, 16 ld SOIC
3 rd Generation	ADUM140D	150M	13n	4	4	0	3.75k	75k		1.7	5.5	16-Lead SOIC, 16-Lead QSOFP, 16 ld SOIC
3 rd Generation	ADUM140E	150M	13n	4	4	0	3.75k	75k		1.7	5.5	16-Lead SOIC, 16-Lead QSOFP, 16 ld SOIC
General Purpose	MAX14932A	1M		4	2	2	2.75k			1.71	5.5	Small-Outline IC, Narrow (0.15in), 16-SOIC_ W-300_MIL
General Purpose	MAX14932B	25M		4	2	2	2.75k			1.71	5.5	Small-Outline IC, Narrow (0.15in), 16-SOIC_ W-300_MIL
General Purpose	MAX14932C	150M		4	2	2	2.75k			1.71	5.5	Small-Outline IC, Narrow (0.15in), 16-SOIC_ W-300_MIL
General Purpose	MAX14932D	1M		4	2	2	2.75k			1.71	5.5	Small-Outline IC, Narrow (0.15in), 16-SOIC_ W-300_MIL
General Purpose	MAX14932E	25M		4	2	2	2.75k			1.71	5.5	Small-Outline IC, Narrow (0.15in), 16-SOIC_ W-300_MIL
General Purpose	MAX14932F	150M		4	2	2	2.75k			1.71	5.5	Small-Outline IC, Narrow (0.15in), 16-SOIC_ W-300_MIL
General Purpose	MAX14936A	1M		4	2	2	5k			1.71	5.5	16-SOIC_ W-300_MIL

Standard Digital Isolators (Continued)

Category	Part Number	Data Rate (max) bps	Prop Delay (max) s	# of Channels	Inputs Side 1	Inputs Side 2	Insulation Rating V rms	CMTI (min) V/us	Iout Isolated Supply (max) A	Vs+ (min) V	Vs+ (max) V	Package
General Purpose	MAX14936B	25M		4	2	2	5k			1.71	5.5	16-SOIC_W-300_MIL
General Purpose	MAX14936C	150M		4	2	2	5k			1.71	5.5	16-SOIC_W-300_MIL
General Purpose	MAX14936D	1M		4	2	2	5k			1.71	5.5	16-SOIC_W-300_MIL
General Purpose	MAX14936E	25M		4	2	2	5k			1.71	5.5	16-SOIC_W-300_MIL
General Purpose	MAX14936F	150M		4	2	2	5k			1.71	5.5	16-SOIC_W-300_MIL
General Purpose	MAX14930A	1M		4	4	0	2.75k			1.71	5.5	Small-Outline IC, Narrow (0.15in), 16-SOIC_ W-300_MIL
General Purpose	MAX14930B	25M		4	4	0	2.75k			1.71	5.5	Small-Outline IC, Narrow (0.15in), 16-SOIC_ W-300_MIL
General Purpose	MAX14930C	150M		4	4	0	2.75k			1.71	5.5	Small-Outline IC, Narrow (0.15in), 16-SOIC_ W-300_MIL
General Purpose	MAX14930D	1M		4	4	0	2.75k			1.71	5.5	Small-Outline IC, Narrow (0.15in), 16-SOIC_ W-300_MIL
General Purpose	MAX14930E	25M		4	4	0	2.75k			1.71	5.5	Small-Outline IC, Narrow (0.15in), 16-SOIC_ W-300_MIL
General Purpose	MAX14931A	1M		4	3	1	2.75k			1.71	5.5	Small-Outline IC, Narrow (0.15in), 16-SOIC_ W-300_MIL
General Purpose	MAX14931B	25M		4	3	1	2.75k			1.71	5.5	Small-Outline IC, Narrow (0.15in), 16-SOIC_ W-300_MIL
General Purpose	MAX14931C	150M		4	3	1	2.75k			1.71	5.5	Small-Outline IC, Narrow (0.15in), 16-SOIC_ W-300_MIL
General Purpose	MAX14934A	1M		4	4	0	5k			1.71	5.5	16-SOIC_W-300_MIL
General Purpose	MAX14934B	25M		4	4	0	5k			1.71	5.5	16-SOIC_W-300_MIL
General Purpose	MAX14934C	150M		4	4	0	5k			1.71	5.5	16-SOIC_W-300_MIL
General Purpose	MAX14934D	1M		4	4	0	5k			1.71	5.5	16-SOIC_W-300_MIL
General Purpose	MAX14934E	25M		4	4	0	5k			1.71	5.5	16-SOIC_W-300_MIL

Standard Digital Isolators (Continued)

Category	Part Number	Data Rate (max) bps	Prop Delay (max) s	# of Channels	Inputs Side 1	Inputs Side 2	Insulation Rating V rms	CMTI (min) V/us	Iout Isolated Supply (max) A	Vs+ (min) V	Vs+ (max) V	Package
General Purpose	MAX14934F	150M		4	4	0	5k			1.71	5.5	16-SOIC_W-300_MIL
General Purpose	MAX14935A	1M		4	3	1	5k			1.71	5.5	16-SOIC_W-300_MIL
General Purpose	MAX14935B	25M		4	3	1	5k			1.71	5.5	16-SOIC_W-300_MIL
General Purpose	MAX14935C	150M		4	3	1	5k			1.71	5.5	16-SOIC_W-300_MIL
General Purpose	MAX14935D	1M		4	3	1	5k			1.71	5.5	16-SOIC_W-300_MIL
General Purpose	MAX14935E	25M		4	3	1	5k			1.71	5.5	16-SOIC_W-300_MIL
General Purpose	MAX14935F	150M		4	3	1	5k			1.71	5.5	16-SOIC_W-300_MIL
Ultra Low Power	ADUM1240	2M	180n	2	2	0	3.75k	25k		2.25	3.6	8-Lead SOIC, 20-Lead SSOP
Ultra Low Power	ADUM1241	2M	180n	2	1	1	3.75k	25k		2.25	3.6	8-Lead SOIC, 20-Lead SSOP
Ultra Low Power	ADUM1245	2M	180n	2	2	0	3.75k	25k		2.25	3.6	8-Lead SOIC, 20-Lead SSOP
Ultra Low Power	ADUM1246	2M	180n	2	1	1	3.75k	25k		2.25	3.6	8-Lead SOIC, 20-Lead SSOP
Ultra Low Power	ADUM1440	2M	180n	4	4	0	3.75k	25k	800n	2.25	3.6	16-Lead QSOP, 20-Lead SSOP
Ultra Low Power	ADUM1441	2M	180n	4	3	1	3.75k	25k	800n	2.25	3.6	16-Lead QSOP, 20-Lead SSOP
Ultra Low Power	ADUM1442	2M	180n	4	2	2	3.75k	25k	800n	2.25	3.6	16-Lead QSOP, 20-Lead SSOP
Ultra Low Power	ADUM1445	2M	180n	4	4	0	3.75k	25k	800n	2.25	3.6	16-Lead QSOP, 20-Lead SSOP
Ultra Low Power	ADUM1446	2M	180n	4	3	1	3.75k	25k	800n	2.25	3.6	16-Lead QSOP, 20-Lead SSOP
Ultra Low Power	ADUM1447	2M	180n	4	2	2	3.75k	25k	800n	2.25	3.6	16-Lead QSOP, 20-Lead SSOP
General Purpose	ADUM2280	100M	24n	2	2	0	5k	25k		2.7	5.5	16-Lead SOIC (Increased Creepage)
General Purpose	ADUM2281	100M	24n	2	1	1	5k	25k		2.7	5.5	16-Lead SOIC (Increased Creepage)
General Purpose	ADUM2285	100M	24n	2	2	0	5k	25k		2.7	5.5	16-Lead SOIC (Increased Creepage)
General Purpose	ADUM2286	100M	24n	2	1	1	5k	25k		2.7	5.5	16-Lead SOIC (Increased Creepage)
Functional Isolation	ADUM7640	25M	46n	6	6	0	1k	15k		3	5.5	20-Lead QSOP
Functional Isolation	ADUM7641	25M	46n	6	5	1	1k	15k		3	5.5	20-Lead QSOP
Functional Isolation	ADUM7642	25M	46n	6	4	2	1k	15k		3	5.5	20-Lead QSOP

Standard Digital Isolators (Continued)

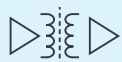
Category	Part Number	Data Rate (max) bps	Prop Delay (max) s	# of Channels	Inputs Side 1	Inputs Side 2	Insulation Rating V rms	CMTI (min) V/us	Iout Isolated Supply (max) A	Vs+ (min) V	Vs+ (max) V	Package
Functional Isolation	ADUM7643	25M	46n	6	3	3	1k	15k		3	5.5	20-Lead QSOP
General Purpose	ADUM3480	25M	25n	4	4	0	3.75k	25k		3	5.5	20-Lead SSOP
General Purpose	ADUM3481	25M	25n	4	3	1	3.75k	25k		3	5.5	20-Lead SSOP
General Purpose	ADUM3482	25M	25n	4	2	2	3.75k	25k		3	5.5	20-Lead SSOP
General Purpose	ADUM1280	100M	24n	2	2	0	3k	25k		3	5.5	8-Lead SOIC
General Purpose	ADUM1281	100M	24n	2	1	1	3k	25k		3	5.5	8-Lead SOIC
General Purpose	ADUM1285	100M	24n	2	2	0	3k	25k		3	5.5	8-Lead SOIC
General Purpose	ADUM1286	100M	24n	2	1	1	3k	25k		3	5.5	8-Lead SOIC
Functional Isolation	ADUM7240	25M	41n	2	2	0	1k	15k		3	5.5	8-Lead SOIC
Functional Isolation	ADUM7241	25M	41n	2	1	1	1k	15k		3	5.5	8-Lead SOIC
General Purpose	MAX14850	50M		6	2	2	600			3	5.5	16-QSOP-150_MIL, EVALUATION BOARDS, 16-SOIC_N-150_MIL
General Purpose	MAX14842	50M		6	4	2	72			3	5.5	EVALUATION BOARDS, 16-LFCSP-4X4X0.75
General Purpose	ADUM2210	10M	50n	2	2	0	5k	25k		3	5.5	16-Lead SOIC (Increased Creepage), 16 ld SOIC
General Purpose	ADUM2211	10M	50n	2	1	1	5k	25k		3	5.5	16-Lead SOIC (Increased Creepage), 16 ld SOIC
Functional Isolation	ADUM7440	25M	40n	4	4	0	1k	15k		3	5.5	16-Lead QSOP
Functional Isolation	ADUM7441	25M	40n	4	3	1	1k	15k		3	5.5	16-Lead QSOP
Functional Isolation	ADUM7442	25M	40n	4	2	2	1k	15k		3	5.5	16-Lead QSOP
General Purpose	ADUM3211	10M	50n	2	1	1	2.5k	25k		3	5.5	8-Lead SOIC
General Purpose	ADUM4400	90M	32n	4	4	0	5k	25k		3.135	5.5	16-Lead SOIC (Increased Creepage), 16 ld SOIC
General Purpose	ADUM4401	90M	27n	4	3	1	5k	25k		3.135	5.5	16-Lead SOIC (Increased Creepage), 16 ld SOIC
General Purpose	ADUM4402	90M	27n	4	2	2	5k	25k		3.135	5.5	16-Lead SOIC (Increased Creepage), 16 ld SOIC
Functional Isolation	ADUM7510	10M	27n	5	5	0	1k	15k		3	5.5	16-Lead QSOP
General Purpose	ADUM2200	10M	50n	2	2	0	5k	25k		3	5.5	16-Lead SOIC (Increased Creepage), 16 ld SOIC

Standard Digital Isolators (Continued)

Category	Part Number	Data Rate (max) bps	Prop Delay (max) s	# of Channels	Inputs Side 1	Inputs Side 2	Insulation Rating V rms	CMTI (min) V/us	Iout Isolated Supply (max) A	Vs+ (min) V	Vs+ (max) V	Package
General Purpose	ADUM2201	10M	50n	2	1	1	5k	25k		3	5.5	16-Lead SOIC (Increased Creepage), 16 ld SOIC
General Purpose	ADUM1510	10M	50n	5	5	0	2.5k	25k		4.5	5.5	16 ld SOIC
General Purpose	ADUM3210	10M	50n	2	2	0	2.5k	25k		3	5.5	8-Lead SOIC
General Purpose	ADUM1311	10M	32n	3	2	1	2.5k	25k		2.7	5.5	16 ld SOIC
General Purpose	ADUM1411	10M	50n	4	3	1	3.75k	35k		2.7	5.5	16 ld SOIC
General Purpose	ADUM1412	10M	50n	4	2	2	3.75k	35k		2.7	5.5	16 ld SOIC
General Purpose	ADUM3200	25M	45n	2	2	0	2.5k	25k		3	5.5	8-Lead SOIC
General Purpose	ADUM3201	25M	45n	2	1	1	2.5k	25k		2.7	5.5	8-Lead SOIC
General Purpose	ADUM3300	90M	32n	3	3	0	2.5k	25k		2.7	5.5	16 ld SOIC
General Purpose	ADUM3301	90M	32n	3	2	1	2.5k	25k		2.7	5.5	16 ld SOIC
General Purpose	ADUM3400	90M	32n	4	4	0	2.5k	25k		2.7	5.5	16 ld SOIC
General Purpose	ADUM3401	90M	32n	4	3	1	2.5k	25k		2.7	5.5	16 ld SOIC
General Purpose	ADUM3402	90M	32n	4	2	2	2.5k	25k		2.7	5.5	16 ld SOIC
General Purpose	ADUM2400	90M	32n	4	4	0	5k	25k		2.7	5.5	16-Lead SOIC (Increased Creepage), 16 ld SOIC
General Purpose	ADUM2401	90M	32n	4	3	1	5k	25k		2.7	5.5	16-Lead SOIC (Increased Creepage), 16 ld SOIC
General Purpose	ADUM2402	90M	32n	4	2	2	5k	25k		2.7	5.5	16-Lead SOIC (Increased Creepage), 16 ld SOIC
General Purpose	ADUM3100	100M	18n	1	1	0	2.5k	25k		2.7	5.5	8-Lead SOIC
General Purpose	ADUM1200	25M	45n	2	2	0	2.5k	25k		2.7	5.5	8-Lead SOIC
General Purpose	ADUM1201	25M	45n	2	1	1	2.5k	25k		2.7	5.5	8-Lead SOIC
General Purpose	ADUM1210	10M	50n	2	2	0	2.5k	25k		2.7	5.5	8-Lead SOIC
General Purpose	ADUM1310	10M	50n	3	3	0	2.5k	25k		2.7	5.5	16 ld SOIC
General Purpose	ADUM1410	10M	50n	4	4	0	3.75k	35k		2.7	5.5	16 ld SOIC

Standard Digital Isolators (Continued)

Category	Part Number	Data Rate (max) bps	Prop Delay (max) s	# of Channels	Inputs Side 1	Inputs Side 2	Insulation Rating V rms	CMTI (min) V/us	Iout Isolated Supply (max) A	Vs+ (min) V	Vs+ (max) V	Package
General Purpose	ADUM1300	90M	32n	3	3	0	2.5k	25k		2.7	5.5	16 ld SOIC
General Purpose	ADUM1301	90M	32n	3	2	1	2.5k	25k		2.7	5.5	16 ld SOIC
General Purpose	ADUM1400	90M	32n	4	4	0	2.5k	25k		2.7	5.5	16 ld SOIC
General Purpose	ADUM1401	90M	32n	4	3	1	2.5k	25k		2.7	5.5	16 ld SOIC
General Purpose	ADUM1402	90M	32n	4	2	2	2.5k	25k		2.7	5.5	16 ld SOIC
General Purpose	ADUM1100	100M	18n	1	1	0	2.5k	25k		3	5.5	8-Lead SOIC
Low Power	MAX12934	25M		2	2	0	5k			1.71	5.5	
Low Power	MAX22290	200M	7n	2	2	0	3k			1.71	5.5	
Low Power	MAX22564	100M	7n	6	3	3	3.75k			1.71	5.5	
3 rd Generation	ADUM320N	150M	10n	2	2	0	3k	100k		2.25	5.5	8 ld SOIC_N
3 rd Generation	ADUM321N	150M	10n	2	1	1	3k	100k		2.25	5.5	8 ld SOIC_N



Digital Isolation

Analog Devices' digital isolators enable designers to implement robust solutions with our magnetically isolated *iCoupler* products with the flexibility of up to six channels. Products meet stringent safety standards, including the ability to isolate IS-IS with our intrinsic safety certified digital isolators that enable designs in hazardous areas. Automotive certified versions are also available.

Isolated Power and Data

INNOVATIVE FEATURES:

- ▶ Chip-Scale Transformer Technology
- ▶ Low Emissions
- ▶ Integrates Data and Connectivity

BREAKTHROUGH BENEFITS:

- ▶ Reduced Component Count
- ▶ Simplified Power Design
- ▶ Smallest Application Space

isoPower

Part Number	# of Channels	Prop Delay (max) s	Iout Isolated Supply (max) A	Iso Vout (min) V	Insulation Rating V rms	CMTI (min) V/us	Interface Protocol	Vs+ (min) V	Vs+ (max) V	Package
ADP1034	3	15n	150m	6	2.5k	25k	Isolated SPI, isoPower, Standard Digital Isolator	1.8	5.5	41-Lead LFCSP (9mm x 7mm)
ADUM6423A	4	17n	100m	3.135	5k	75k	isoPower, Standard Digital Isolator	1.7	5.5	28-Lead SOIC (Wide, Finer Pitch)
ADUM6424A	4	17n	100m	3.135	5k	75k	isoPower, Standard Digital Isolator	1.7	5.5	28-Lead SOIC (Wide, Finer Pitch)
ADUM6422A	4	17n	100m	3.135	5k	75k	isoPower, Standard Digital Isolator	1.7	5.5	28-Lead SOIC (Wide, Finer Pitch)
ADP1032	2	15n	150m	6	2.5k	25k	Isolated SPI, isoPower, Standard Digital Isolator	1.8	5.5	41-Lead LFCSP (9mm x 7mm)
ADUM6420A	4	17n	100m	3.135	5k	75k	isoPower, Standard Digital Isolator	1.7	5.5	28-Lead SOIC (Wide, Finer Pitch)
ADUM6421A	4	17n	100m	3.135	5k	75k	isoPower, Standard Digital Isolator	1.7	5.5	28-Lead SOIC (Wide, Finer Pitch)
ADP1031	3	15n	100m	6	2.5k	25k	Isolated SPI, isoPower, Standard Digital Isolator	1.8	5.5	41-Lead LFCSP (9mm x 7mm), LFCSP:LEADFRM CHIP SCALE
ADUM5020	0		100m	3	3k		isoPower	3	5.5	16 ld SOIC
ADUM5028	0		60m	3	3k		isoPower	3	5.5	8-Lead SOIC (Increased Creepage)
ADUM6020	0		100m	3	5k		isoPower	3	5.5	16-Lead SOIC (Increased Creepage)

isoPower (Continued)

Part Number	# of Channels	Prop Delay (max) s	Iout Isolated Supply (max) A	Iso Vout (min) V	Insulation Rating V rms	CMTI (min) V/us	Interface Protocol	Vs+ (min) V	Vs+ (max) V	Package
ADUM6028	0		60m	3	5k		isoPower	3	5.5	8-Lead SOIC (Increased Creepage)
LTM2886	6		100m	-5	2.5k	30k	Isolated I ² C, Isolated SPI, Standard Digital Isolator	1.62	5.5	32-Lead BGA (15mm x 11.25mm x 3.42mm)
LTM2889-3	1	275n	125m	3	2.5k	30k	CAN FD, ISO 11898-2	1.62	5.5	32-Lead BGA (15mm x 11.25mm x 3.42mm)
LTM2889-5	1	275n	200m	3	2.5k	30k	CAN FD, ISO 11898-2	1.62	5.5	32-Lead BGA (15mm x 11.25mm x 3.42mm)
ADUM5410	4	14n	30m	3	2.5k	75k	isoPower, Standard Digital Isolator	3	5.5	24-Lead SSOP
ADUM5411	4	14n	30m	3	2.5k	75k	isoPower, Standard Digital Isolator	3	5.5	24-Lead SSOP
ADUM5412	4	14n	30m	3	2.5k	75k	isoPower, Standard Digital Isolator	3	5.5	24-Lead SSOP
ADUM6410	4	14n	30m	3	3.75k	75k	isoPower, Standard Digital Isolator	3	5.5	24-Lead SSOP
ADUM6411	4	14n	30m	3	3.75k	75k	isoPower, Standard Digital Isolator	3	5.5	24-Lead SSOP
ADUM6412	4	14n	30m	3	3.75k	75k	isoPower, Standard Digital Isolator	3	5.5	24-Lead SSOP
LTM2885	1		200m	4.75	6.5k	50k	Isolated RS-422, Isolated RS-485, PROFIBUS	1.62	5.5	42-Lead BGA (22mm x 9mm x 5.16mm)
LTM2887	6		100m	5	2.5k	30k	Isolated I ² C, Isolated SPI, Standard Digital Isolator	1.62	5.5	32-Lead BGA (15mm x 11.25mm x 3.42mm)
LTM2884	1	300n	500m	4.75	2.5k	30k	USB 2.0 Full Speed and Low Speed	4.4	16.5	44-Lead BGA (15mm x 15mm x 5.02mm)
ADM3260	2	95n	30m	4.5	2.5k	25k	Isolated I ² C, isoPower	3	5.5	20-Lead SSOP
ADUM4470	4	60n	400m	3.3	5k	25k	isoPower, Standard Digital Isolator	3	5.5	20-Lead SOIC (Increased Creepage)
ADUM4471	4	60n	400m	3.3	5k	25k	isoPower, Standard Digital Isolator	3	5.5	20-Lead SOIC (Increased Creepage)
ADUM4472	4	60n	400m	3.3	5k	25k	isoPower, Standard Digital Isolator	3	5.5	20-Lead SOIC (Increased Creepage)

isoPower (Continued)

Part Number	# of Channels	Prop Delay (max) s	I _{out} Isolated Supply (max) A	I _{iso} V _{out} (min) V	Insulation Rating V _{rms}	CMTI (min) V/us	Interface Protocol	V _{s+} (min) V	V _{s+} (max) V	Package
ADUM4473	4	60n	400m	3.3	5k	25k	isoPower, Standard Digital Isolator	3	5.5	20-Lead SOIC (Increased Creepage)
ADUM4474	4	60n	400m	3.3	5k	25k	isoPower, Standard Digital Isolator	3	5.5	20-Lead SOIC (Increased Creepage)
ADUM5210	2	29n	30m	3.085	2.5k	25k	isoPower, Standard Digital Isolator	3	5.5	20-Lead SSOP
ADUM5211	2	29n	30m	3.085	2.5k	25k	isoPower, Standard Digital Isolator	3	5.5	20-Lead SSOP
ADUM5212	2	29n	30m	3.085	2.5k	25k	isoPower, Standard Digital Isolator	3	5.5	20-Lead SSOP
ADUM6210	2	29n	30m	3.085	3.75k	25k	isoPower, Standard Digital Isolator	3	5.5	20-Lead SSOP
ADUM6211	2	29n	30m	3.085	3.75k	25k	isoPower, Standard Digital Isolator	3	5.5	20-Lead SSOP
ADUM6212	2	29n	30m	3.085	3.75k	25k	isoPower, Standard Digital Isolator	3	5.5	20-Lead SSOP
ADUM4070	0		500m	3.5	5k	25k	isoPower	3	5.5	16-Lead SOIC (Increased Creepage)
ADUM5010	0		30m	3.3	2.5k	25k	isoPower	3.3	5.5	20-Lead SSOP
ADUM6010	0		30m	3.3	3.75k	25k	isoPower	3	5.5	20-Lead SSOP
LTM2883	6		30m	-12.5	2.5k	30k	Isolated I ² C, Isolated SPI, Standard Digital Isolator	1.62	5.5	32-Lead BGA (15mm x 11.25mm x 3.42mm)
ADUM3070	0		400m	3	2.5k	25k	isoPower	3	5.5	16-Lead QSOP
ADUM3470	4	60n	400m	3	2.5k	25k	isoPower, Standard Digital Isolator	3	5.5	20-Lead SSOP
ADUM3471	4	60n	400m	3	2.5k	25k	isoPower, Standard Digital Isolator	3	5.5	20-Lead SSOP
ADUM3472	4	60n	400m	3	2.5k	25k	isoPower, Standard Digital Isolator	3	5.5	20-Lead SSOP
ADUM3473	4	60n	400m	3	2.5k	25k	isoPower, Standard Digital Isolator	3	5.5	20-Lead SSOP
ADUM3474	4	60n	400m	3	2.5k	25k	isoPower, Standard Digital Isolator	3	5.5	20-Lead SSOP

isoPower (Continued)

Part Number	# of Channels	Prop Delay (max) s	Iout Isolated Supply (max)A	Iso Vout (min) V	Insulation Rating V rms	CMTI (min) V/us	Interface Protocol	Vs+ (min) V	Vs+ (max) V	Package
ADUM6000	0		100m	3	5k	25k	isoPower	3	5.5	16-Lead SOIC (Increased Creepage), 16 ld SOIC
ADUM6200	2	45n	80m	3	5k	25k	isoPower, Standard Digital Isolator	3	5.5	16-Lead SOIC (Increased Creepage), 16 ld SOIC
ADUM6201	2	45n	80m	3	5k	25k	isoPower, Standard Digital Isolator	3	5.5	16-Lead SOIC (Increased Creepage), 16 ld SOIC
ADUM6202	2	45n	80m	3	5k	25k	isoPower, Standard Digital Isolator	3	5.5	16-Lead SOIC (Increased Creepage), 16 ld SOIC
LTM2881-3	1		125m	4.75	2.5k	30k	Isolated RS-422, Isolated RS-485, PROFIBUS	1.62	5.5	32-Lead LGA (15mm x 11.25mm x 2.82mm), 32-Lead BGA (15mm x 11.25mm x 3.42mm)
LTM2881-5	1		200m	4.75	2.5k	30k	Isolated RS-422, Isolated RS-485, PROFIBUS	1.62	5.5	32-Lead LGA (15mm x 11.25mm x 2.82mm), 32-Lead BGA (15mm x 11.25mm x 3.42mm)
ADUM6400	4	60n	80m	3	5k	25k	isoPower, Standard Digital Isolator	3	5.5	16-Lead SOIC (Increased Creepage), 16 ld SOIC
ADUM6401	4	60n	80m	3	5k	25k	isoPower, Standard Digital Isolator	3	5.5	16-Lead SOIC (Increased Creepage), 16 ld SOIC
ADUM6402	4	60n	80m	3	5k	25k	isoPower, Standard Digital Isolator	3	5.5	16-Lead SOIC (Increased Creepage), 16 ld SOIC
ADUM6403	4	60n	80m	3	5k	25k	isoPower, Standard Digital Isolator	3	5.5	16-Lead SOIC (Increased Creepage), 16 ld SOIC
ADUM6404	4	60n	80m	3	5k	25k	isoPower, Standard Digital Isolator	3	5.5	16-Lead SOIC (Increased Creepage), 16 ld SOIC
LTM2882-3	2	500n	125m	4.8	2.5k	30k	Isolated RS-232	3	3.6	32-Lead LGA (15mm x 11.25mm x 2.82mm), 32-Lead BGA (15mm x 11.25mm x 3.42mm)
LTM2882-5	2	500n	200m	4.8	2.5k	30k	Isolated RS-232	4.5	5.5	32-Lead LGA (15mm x 11.25mm x 2.82mm), 32-Lead BGA (15mm x 11.25mm x 3.42mm)
ADUM5000	0		100m	3	2.5k		isoPower	3	5.5	16 ld SOIC
ADUM5200	2	70n	100m	3	2.5k	25k	isoPower, Standard Digital Isolator	3	5.5	16 ld SOIC

isoPower (Continued)

Part Number	# of Channels	Prop Delay (max) s	Iout Isolated Supply (max) A	Iso Vout (min) V	Insulation Rating V rms	CMTI (min) V/us	Interface Protocol	Vs+ (min) V	Vs+ (max) V	Package
ADUM5201	2	70n	100m	3	2.5k	25k	isoPower, Standard Digital Isolator	3	5.5	16 ld SOIC
ADUM5202	2	70n	100m	3	2.5k	25k	isoPower, Standard Digital Isolator	3	5.5	16 ld SOIC
ADUM5400	4	60n	100m	3	2.5k	25k	isoPower, Standard Digital Isolator	3	5.5	16 ld SOIC
ADUM5401	4	60n	100m	3	2.5k	25k	Isolated SPI, isoPower, Standard Digital Isolator	3	5.5	16 ld SOIC
ADUM5402	4	60n	100m	3	2.5k	25k	isoPower, Standard Digital Isolator	3	5.5	16 ld SOIC
ADUM5403	4	60n	100m	3	2.5k	25k	isoPower, Standard Digital Isolator	3.5	5.5	16 ld SOIC
ADUM5404	4	60n	100m	3	2.5k	25k	isoPower, Standard Digital Isolator	3	5.5	16 ld SOIC
ADUM5240	2	70n	50m	4.5	2.5k	25k	isoPower, Standard Digital Isolator	2.7	5.5	8-Lead SOIC
ADUM5241	2	70n	50m	4.5	2.5k	25k	isoPower, Standard Digital Isolator	2.7	5.5	8-Lead SOIC
ADUM5242	2	70n	50m	4.5	2.5k	25k	isoPower, Standard Digital Isolator	2.7	5.5	8-Lead SOIC



Isolated Power

Integrated isolated power pioneered by Analog Devices' isoPower chip-scale transformer technology changed isolation system design. This technology removed the complexity of building and certifying separate isolated supplies, reduced board size, and eliminated the need to use multiple discrete components for optimized designs. Complementing the advantages of isoPower technology, Analog Devices' μ Module devices integrate additional discrete components, creating solutions that require no additional components and provide additional auxiliary isolated power.



Isolated Connect

INNOVATIVE FEATURES:

- ▶ Highest Speed - Up to 10Gbps Isolators (2.5Gbps Per Channel)
- ▶ Highly Integrated Solutions
- ▶ High Efficiency

BREAKTHROUGH BENEFITS:

- ▶ Robust Communication
- ▶ Leading Noise Immunity (CMTI)
- ▶ Automotive Qualifications

Isolated RS-485

Part Number	Data Rate (max) bps	Full or Half Duplex Operation	Insulation Rating V _{rms}	CMTI (min) V/us	V _{s+} (min) V	V _{s+} (max) V	Package
ADM2491E	16M	Full, Half	5k	25k	3	5.5	16 Id SOIC
MAX22026E	16M	Half					8-SOIC_W-300_MIL
MAX22027E	500k	Half					8-SOIC_W-300_MIL
MAX22028E	16M	Half					8-SOIC_W-300_MIL
ADM2565E	25M	Half	3k	250k	3	5.5	28-Lead SOIC (Wide, Finer Pitch)
ADM2865E	25M	Half	5.7k	250k	3	5.5	28-Lead SOIC (Wide, Finer Pitch)
ADM2461E	500k	Half	5.7k	250k	3	5.5	16 Id SOIC
ADM2463E	500k	Full, Half	5.7k	250k	3	5.5	16 Id SOIC
ADM2561E	500k	Half	3k	250k	3	5.5	28-Lead SOIC (Wide, Finer Pitch)
ADM2563E	500k	Full, Half	3k	250k	3	5.5	28-Lead SOIC (Wide, Finer Pitch)
ADM2761E	500k	Half	5.7k	250k	3	5.5	16 Id SOIC
ADM2763E	500k	Full, Half	5.7k	250k	3	5.5	16 Id SOIC
ADM2861E	500k	Half	5.7k	250k	3	5.5	28-Lead SOIC (Wide, Finer Pitch)
ADM2863E	500k	Full, Half	5.7k	250k	3	5.5	28-Lead SOIC (Wide, Finer Pitch)
ADM2867E	25M	Full, Half	5.7k	250k	3	5.5	28-Lead SOIC (Wide, Finer Pitch)
MAX22025E	500k						8-SOIC_W-300_MIL
ADM2567E	25M	Full, Half	3k	250k	3	5.5	28-Lead SOIC (Wide, Finer Pitch)
MAX22025	500k	Half			5		8-SOIC_W-300_MIL
MAX22028	16M				5		8-SOIC_W-300_MIL

Isolated RS-485 (Continued)

Part Number	Data Rate (max) bps	Full or Half Duplex Operation	Insulation Rating V rms	CMTI (min) V/us	Vs+ (min) V	Vs+ (max) V	Package
MAXM22510	500k	Full			3.3		44-LGA-9.35X11.5X2.82
MAXM22511	25M	Full			3.3		44-LGA-9.35X11.5X2.82
ADM2795E	2.5M	Half	5k	75k	1.7	5.5	16 ld SOIC
MAX14852	500k	Full			3	5.5	16-SOIC_W-300_MIL
MAX14854	25M	Full			3	5.5	16-SOIC_W-300_MIL
MAX14856	500k	Full			3	5.5	16-SOIC_W-300_MIL
MAX14858	25M	Full			3	5.5	16-SOIC_W-300_MIL
MAX14859	25M	Full			3	5.5	16-SOIC_W-300_MIL
MAX14938	20M	Half			5		16-SOIC_W-300_MIL
MAX14939	20M	Half			5		16-SOIC_W-300_MIL
MAX14948	500k	Half			5		16-SOIC_W-300_MIL
MAX14857	500k	Full			3	5.5	16-SOIC_W-300_MIL
MAX14940	20M	Half			3	5.5	16-SOIC_W-300_MIL
MAX14946	500k	Half			5		16-SOIC_W-300_MIL
LTM2885	20M	Full, Half	6.5k	50k	1.62	5.5	42-Lead BGA (22mm x 9mm x 5.16mm)
MAX14941	20M	Half			5		16-SOIC_W-300_MIL
MAX14942	20M	Half			5		16-SOIC_W-300_MIL
MAX14945	500k	Half			5		16-SOIC_W-300_MIL
MAX14943	20M	Half			3	5.5	16-SOIC_W-300_MIL
MAX14949	500k	Half			5		16-SOIC_W-300_MIL
MAX14853	500k	Full			3	5.5	16-SOIC_W-300_MIL
MAX14855	25M	Full			3	5.5	16-SOIC_W-300_MIL
ADM2682E	16M	Full, Half	5k	25k	3	5.5	16-Lead SOIC (Increased Creepage)
ADM2687E	500k	Full, Half	5k	25k	3	5.5	16-Lead SOIC (Increased Creepage)
ADM2481	500k	Half	2.5k	25k	3	5.5	16 ld SOIC
ADM2582E	16M	Full, Half	2.5k	25k	3	5.5	20-Lead SOIC (Wide)
ADM2587E	500k	Full, Half	2.5k	25k	3	5.5	20-Lead SOIC (Wide)
LTM2881-3	20M	Full, Half	2.5k	30k	1.62	5.5	32-Lead LGA (15mm x 11.25mm x 2.82mm), 32-Lead BGA (15mm x 11.25mm x 3.42mm)

Isolated RS-485 (Continued)

Part Number	Data Rate (max) bps	Full or Half Duplex Operation	Insulation Rating V rms	CMTI (min) V/us	Vs+ (min) V	Vs+ (max) V	Package
LTM2881-5	20M	Full, Half	2.5k	30k	1.62	5.5	32-Lead LGA (15mm x 11.25mm x 2.82mm), 32-Lead BGA (15mm x 11.25mm x 3.42mm)
ADM2482E	16M	Full, Half	2.5k	25k	3	5.5	16 ld SOIC
ADM2484E	500k	Full, Half	5k	25k	3	5.5	16 ld SOIC
ADM2487E	500k	Full, Half	2.5k	25k	3	5.5	16 ld SOIC
ADM2485	16M	Half	2.5k	25k	2.7	5.5	16 ld SOIC
ADM2490E	16M	Full, Half	5k	25k	2.7	5.5	16 ld SOIC
ADM2483	500k	Half	2.5k	25k	2.7	5.5	16 ld SOIC
ADM2486	20M	Half	2.5k	25k	2.7	5.5	16 ld SOIC
MAX3535E	1M	Full			3	5.5	28-SOIC_W-300_MIL
MXL1535E	1M	Full			5		28-SOIC_W-300_MIL
MAX3158	250k	Half/Full			5		28-SSOP-5.3_MM
MAX1480EA	2.5M	Half			5		28-PDIP-600_MIL
MAX1480EC	160k	Half			5		28-PDIP-600_MIL
MAX1490EA	2.5M	Full			5		24-PDIP-600_MIL
MAX1490EB	160k	Full			5		24-PDIP-600_MIL
MAX3480EA	2.5M	Half			3.3		28-PDIP-600_MIL
MAX3480EB	160k	Half			3.3		28-PDIP-600_MIL
MAX3157	250k	Half/Full			5		28-SSOP-5.3_MM
LTC1535	250k	Full, Half	2.5k		4.5	5.5	28-Lead SOIC (Wide 0.3 Inch)
MAX1480A	2.5M	Half			5		28-PDIP-600_MIL
MAX1480B	250k	Half			5		28-PDIP-600_MIL
MAX1480C	250k	Half			5		28-PDIP-600_MIL
MAX1490A	2.5M	Full			5		24-PDIP-600_MIL
MAX1490B	250k	Full			5		24-PDIP-600_MIL
MAX3480A	2.5M	Half			3.3		28-PDIP-600_MIL
MAX3480B	250k	Half			3.3		28-PDIP-600_MIL

Isolated Controller Area Network (CAN)

Part Number	# of Channels	Data Rate (max) bps	Prop Delay (max) s	Isolated Supply (max) A	Iso Vout (min) V	Insulation Rating V rms	CMTI (min) V/us	Vs+ (min) V	Vs+ (max) V	Package
ADM3058E	1	12M	155n			5.7k	50k	1.7	5.5	8-Lead SOIC (Increased Creepage)
ADM3056E	1	12M	150n		1.8	5.7k	75k	1.7	5.5	16-Lead SOIC (Increased Creepage)
ADM3057E	1	12M	150n			3k	75k	1.7	5.5	20-Lead SOIC (Wide)
ADM3050E	1	12M	150n			5.7k	75k	1.7	5.5	8-Lead SOIC (Increased Creepage), 16 ld SOIC
ADM3055E	1	12M	150n			5k	75k	1.7	5.5	20-Lead SOIC (Increased Creepage)
MAX14882	1	1M				5k	35k	3	5.5	16-SOIC_W-300_MIL
MAX14878	1	1M				5k		1.71	5.5	16-SOIC_W-300_MIL, 8-SOIC_W-300_MIL
MAX14879	1	1M				2.75k		1.71	5.5	16-SOIC_W-300_MIL
MAX14880	1	1M				5k		1.71	5.5	16-SOIC_W-300_MIL
LTM2889-3	1	4M	275n	125m	3	2.5k	30k	1.62	5.5	32-Lead BGA (15mm x 11.25mm x 3.42mm)
LTM2889-5	1	4M	275n	200m	3	2.5k	30k	1.62	5.5	32-Lead BGA (15mm x 11.25mm x 3.42mm)
ADM3054	1	1M	250n			5k	25k	3	5.5	16 ld SOIC
ADM3052	1	1M	250n			5k	25k	3	5.5	16 ld SOIC
ADM3053	1	1M	250n	195m	5	2.5k	25k	3	5.5	20-Lead SOIC (Wide)

Isolated LVDS

Part Number	# of Channels	Data Rate (max) bps	Prop Delay (max) s	Input Side 1	Input Side 2	Insulation Rating V rms	CMTI (min) V/us	Vs+ (min) V	Vs+ (max) V	Package
ADN4622	4	2.5G	2.8n	2	2	5.7k	40k	1.7	1.9	32-Lead LFCSP (6 mm x 6 mm x 0.75 mm), 28-Lead SOIC (Wide, Finer Pitch)
ADN4620	2	2.5G	2.8n	2	0	3.75k	40k	1.7	1.9	SOIC Increased Creepage, 20-Lead SSOP
ADN4621	2	2.5G	2.8n	1	1	3.75k	40k	1.7	1.9	SOIC Increased Creepage, 20-Lead SSOP
ADN4624	4	2.5G	2.8n	4		5.7k	40k	1.7	1.9	32-Lead LFCSP (6 mm x 6 mm x 0.75 mm), 28-Lead SOIC (Wide, Finer Pitch)
ADN4656	2	1.1G	4.5n	1	1	5k	25k	2.375	3.6	20-Lead SSOP, 20-Lead SOIC (Wide)
ADN4654	2	1.1G	4.5n	2	0	5k	25k	2.375	3.6	20-Lead SSOP, 20-Lead SOIC (Wide)
ADN4655	2	1.1G	4.5n	1	1	5k	25k	2.375	3.6	20-Lead SSOP, 20-Lead SOIC (Wide)

Isolated LVDS (Continued)

Part Number	# of Channels	Data Rate (max) bps	Prop Delay (max) s	Input Side 1	Input Side 2	Insulation Rating V rms	CMTI (min) V/us	Vs+ (min) V	Vs+ (max) V	Package
ADN4650	2	600M	4.5n	2	0	5k	25k	2.375	3.6	20-Lead SSOP, 20-Lead SOIC (Wide)
ADN4652	2	600M	4.5n	1	1	5k	25k	2.375	3.6	20-Lead SSOP, 20-Lead SOIC (Wide)
ADN4651	2	600M	4.5n	1	1	5k	25k	2.375	3.6	20-Lead SSOP, 20-Lead SOIC (Wide)

I²C Isolators

Part Number	# of Channels	Data Rate (max) bps	Insulation Rating V rms	Vs+ (min) V	Vs+ (max) V	Package
LTM2810	3	20M	7.5k	1.62	5.5	32(30)-Lead LQFN (6mm x 4mm x 0.94mm)
LTM9100	1	400k	5k	4.5	5.5	42-Lead BGA (22mm x 9mm x 5.16mm)
LTM2886	6	20M	2.5k	1.62	5.5	32-Lead BGA (15mm x 11.25mm x 3.42mm)
MAX14933	2	3.4M	2.75k	2.25	5.5	EVALUATION BOARDS, Small-Outline IC, Narrow (0.15in), 16-SOIC_W-300_MIL
MAX14937	2	3.4M	5k	2.25	5.5	EVALUATION BOARDS, 16-SOIC_W-300_MIL
LTM2887	6	20M	2.5k	1.62	5.5	32-Lead BGA (15mm x 11.25mm x 3.42mm)
ADM3260	2	1M	2.5k	3	5.5	20-Lead SSOP
LTM2892	6	20M	3.5k	1.62	5.5	24-Lead BGA (9mm x 6.25mm x 2.91mm)
LTM2883	6	20M	2.5k	1.62	5.5	32-Lead BGA (15mm x 11.25mm x 3.42mm)
ADUM2250	2	1M	5k	3	5.5	16-Lead SOIC (Increased Creepage), 16 Id SOIC
ADUM2251	2	1M	5k	3	5.5	16-Lead SOIC (Increased Creepage), 16 Id SOIC
ADUM1250	2	1M	2.5k	3	5.5	8-Lead SOIC
ADUM1251	2	1M	2.5k	3	5.5	8-Lead SOIC

USB Isolators

Part Number	Data Rate (max) bps	Prop Delay (max) s	Insulation Rating V rms	CMTI (min) V/us	Vs+ (min) V	Vs+ (max) V	Package
ADUM3165	480M	77n	3.75k	40k	3	5.5	20-Lead SSOP
ADUM3166	480M	77n	5.7k	40k	3	5.5	20-Lead SSOP
ADUM4165	480M	77n	5.7k	40k	3	5.5	20-Lead SOIC (Increased Creepage)
ADUM4166	480M	77n	5.7k	40k	3	5.5	20-Lead SOIC (Increased Creepage)
LTM2894	12M	300n	7.5k	50k	4.4	36	24-Lead BGA (22mm x 6.25mm x 2.06mm)
LTM2884	12M	300n	2.5k	30k	4.4	16.5	44-Lead BGA (15mm x 15mm x 5.02mm)
ADUM3160	12M	325n	2.5k	25k	3.1	5.5	16 ld SOIC
ADUM4160	12M	325n	5k	25k	3.1	5.5	16-Lead SOIC (Increased Creepage), 16 ld SOIC

SPI Isolators

Part Number	# of Channels	Data Rate (max) bps	Prop Delay (max) s	Input Side 1	Input Side 2	Vs+ (min) V	Vs+ (max) V	Package
ADP1034	3	16.6M	15n	3	1	1.8	5.5	41-Lead LFCSP (9mm x 7mm)
ADBMS6821	1	2M				1.7	5.5	32-Lead Plastic Side Solderable QFN (5mm x 5mm)
ADBMS6822	2	2M				1.7	5.5	32-Lead Plastic Side Solderable QFN (5mm x 5mm)
ADUM6421A	4	100M	17n	3	1	1.7	5.5	28-Lead SOIC (Wide, Finer Pitch)
ADP1031	3	16.6M	15n	3	1	1.8	5.5	41-Lead LFCSP (9mm x 7mm), LFCSP: LEADFRM CHIP SCALE
LTM2810	3	20M	100n	5	5	1.62	5.5	32 (30)-Lead LQFN (6mm x 4mm x 0.94mm)
LTM2895	1	100M		9	8	3	5.5	36-Lead BGA (15mm x 6.25mm x 2.06mm)
LTM2886	6	20M		0	2	1.62	5.5	32-Lead BGA (15mm x 11.25mm x 3.42mm)
LTM2893	2	100M		9	8	3	5.5	36-Lead BGA (15mm x 6.25mm x 2.06mm)
LTM2893-1	2	100M		10	8	3	5.5	36-Lead BGA (15mm x 6.25mm x 2.06mm)
LTM2887	6	20M		0	2	1.62	5.5	32-Lead BGA (15mm x 11.25mm x 3.42mm)
ADUM4150	6	40M	14n	3	3	3	5.5	20-Lead SOIC (Increased Creepage)
ADUM4151	7	34M	14n	5	2	3	5.5	20-Lead SOIC (Increased Creepage)

SPI Isolators (Continued)

Part Number	# of Channels	Data Rate (max) bps	Prop Delay (max) s	Input Side 1	Input Side 2	Vs+ (min) V	Vs+ (max) V	Package
ADUM4152	7	34M	14n	4	3	3	5.5	20-Lead SOIC (Increased Creepage)
ADUM4153	7	34M	14n	3	4	3	5.5	20-Lead SOIC (Increased Creepage)
ADUM4154	7	34M	14n	4	3	3	5.5	20-Lead SOIC (Increased Creepage)
ADUM3150	6	40M	14n	3	3	3	5.5	20-Lead SSOP
ADUM3151	7	34M	14n	5	2	3	5.5	20-Lead SSOP
ADUM3152	7	34M	14n	4	3	3	5.5	20-Lead SSOP
ADUM3153	7	34M	14n	3	4	3	5.5	20-Lead SSOP
ADUM3154	7	34M	14n	4	3	3	5.5	20-Lead SSOP
LTM2892	6	20M		0	2	1.62	5.5	24-Lead BGA (9mm x 6.25mm x 2.91mm)
LTC6820	1	1M				1.7	5.5	16-Lead MSOP, 16-Lead QFN (3mm x 3mm x 0.75mm w/ EP)
LTM2883	6	20M		0	2	1.62	5.5	32-Lead BGA (15mm x 11.25mm x 3.42mm)

Isolated RS-232

Part Number	# of Channels	Data Rate (max) bps	Insulation Rating V rms	CMTI (min) V/us	Vs+ (min) V	Vs+ (max) V	Package
MAX33251E	1	1M	600k		3	5.5	12-LGA-6X6X0.91
MAX33250E	2	1M	600k		3	5.5	12-LGA-6X6X0.91
ADM3252E	2	460k	2.5k	25k	3	5.5	44-Ball CSPBGA (12mm x 12mm x 1.4mm)
LTM2882-3	2	1M	2.5k	30k	3	3.6	32-Lead LGA (15mm x 11.25mm x 2.82mm), 32-Lead BGA (15mm x 11.25mm x 3.42mm)
LTM2882-5	2	1M	2.5k	30k	4.5	5.5	32-Lead LGA (15mm x 11.25mm x 2.82mm), 32-Lead BGA (15mm x 11.25mm x 3.42mm)
ADM3251E	1	460k	2.5k	25k	4.5	5.5	20-Lead SOIC (Wide)
MAX3250	2	250k	50k		3	5	28-SSOP-5.3_MM
MAX250	2	116k			5		Plastic Dual-In-Line, Narrow (0.3in), Small-Outline IC, Narrow (0.15in)
MAX251	2	116k			5		Plastic Dual-In-Line, Narrow (0.3in), Small-Outline IC, Narrow (0.15in)

µModule Isolated Transceivers

Part Number	# of Channels	Interface Protocol	Data Rate (typ) Hz	Iso Vout (max) V	Iso Vout (min) V	Iout Isolated Supply (max) A	Package
LTM2810	3	Isolated I ² C, SPI Digital Isolator, Standard Digital Isolator	8M				32 (30)-Lead LQFN (6mm × 4mm × 0.94mm)
LTM2895	1	Isolated SPI	100M				36-Lead BGA (15mm x 6.25mm x 2.06mm)
LTM9100	1	Isolated I ² C	400k	11.15	9.65	35m	42-Lead BGA (22mm x 9mm x 5.16mm)
LTM2886	6	Isolated I ² C, Isolated SPI, Standard Digital Isolator	10M	5	-5	100m	32-Lead BGA (15mm x 11.25mm x 3.42mm)
LTM2889-3	1	CAN FD, ISO 11898-2	4M	5	3	125m	32-Lead BGA (15mm x 11.25mm x 3.42mm)
LTM2889-5	1	CAN FD, ISO 11898-2	4M	5	3	200m	32-Lead BGA (15mm x 11.25mm x 3.42mm)
LTM2893	2	Isolated SPI	100M				36-Lead BGA (15mm x 6.25mm x 2.06mm)
LTM2893-1	2	Isolated SPI	100M				36-Lead BGA (15mm x 6.25mm x 2.06mm)
LTM2894	1	USB 2.0 Full Speed and Low Speed	6M				24-Lead BGA (22mm x 6.25mm x 2.06mm)
LTM2885	1	Isolated RS-422, Isolated RS-485, PROFIBUS	10M	5.35	4.75	200m	42-Lead BGA (22mm x 9mm x 5.16mm)
LTM2887	6	Isolated I ² C, Isolated SPI, Standard Digital Isolator	10M	5	5	100m	32-Lead BGA (15mm x 11.25mm x 3.42mm)
LTM2884	1	USB 2.0 Full Speed and Low Speed	6M	5.25	4.75	500m	44-Lead BGA (15mm x 15mm x 5.02mm)
LTM2892	6	Isolated I ² C, Isolated SPI, Standard Digital Isolator	10M				24-Lead BGA (9mm x 6.25mm x 2.91mm)
LTM2883	6	Isolated I ² C, Isolated SPI, Standard Digital Isolator	10M	12.5	-12.5	30m	32-Lead BGA (15mm x 11.25mm x 3.42mm)
LTM2881-3	1	Isolated RS-422, Isolated RS-485, PROFIBUS	10M	5.35	4.75	125m	32-Lead LGA (15mm x 11.25mm x 2.82mm), 32-Lead BGA (15mm x 11.25mm x 3.42mm)

μModule Isolated Transceivers (Continued)

Part Number	# of Channels	Interface Protocol	Data Rate (typ) Hz	Iso Vout (max) V	Iso Vout (min) V	Iout Isolated Supply (max) A	Package
LTM2881-5	1	Isolated RS-422, Isolated RS-485, PROFIBUS	10M	5.35	4.75	200m	32-Lead LGA (15mm x 11.25mm x 2.82mm), 32-Lead BGA (15mm x 11.25mm x 3.42mm)
LTM2882-3	2	Isolated RS-232	500k	5.35	4.8	125m	32-Lead LGA (15mm x 11.25mm x 2.82mm), 32-Lead BGA (15mm x 11.25mm x 3.42mm)
LTM2882-5	2	Isolated RS-232	500k	5.35	4.8	200m	32-Lead LGA (15mm x 11.25mm x 2.82mm), 32-Lead BGA (15mm x 11.25mm x 3.42mm)



Isolated Transceiver

With over 3 billion channels shipped, ADI’s digital isolation technology offers compact, robust, and reliable solutions that solve our customers’ data transmission challenges while meeting strict safety standards. *i*Coupler digital isolators meet a wide range of creepage/clearance requirements, while the isolated μModule platform reliably integrates galvanic isolation, discrete components, ICs, and power onto a single substrate PCB. The broad portfolio offers solutions spanning isolated field bus (RS-485, CAN, and LVDS) as well as peripheral communications (I²C, USB, SPI, and RS-232). Analog Devices has your isolated protocols covered!

Isolated Convert and Power Conversion

INNOVATIVE FEATURES:

- ▶ Up to 5.7kV RMS Isolation
- ▶ High Accuracy
- ▶ High Efficiency

BREAKTHROUGH BENEFITS:

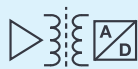
- ▶ Leading Noise Immunity
- ▶ Low Power Consumption
- ▶ Small Package Size

Isolated Analog-to-Digital Converter

Part Number	Channels	Resolution bits	Sample Rate (max) SPS	ADC SNR (typ) dB	INL in LSB (typ) LSBs	Device Architecture	Data Output Interface	Power (typ) W	CMTI (min) V/us	Working Voltage VDE (typ) V	Insulation Rating V rms	Package
MAX22531	4	12	20k			SAR	Isolated SPI		50k		5k	20-SSOP-5.30_MM
MAX22530	4	12	20k			SAR	Isolated SPI		50k		5k	16-SOIC_W-300_MIL
ADUM7704	1	16	21M	82	2	Sigma-Delta Modulator	Isolated Serial	130m	150k	1.06k		8-Lead SOIC (Increased Creepage), 16 ld SOIC
ADUM7702	1	16	21M	82	2	Sigma-Delta Modulator	Isolated Serial	47.6m	150k	1.06k		8-Lead SOIC (Increased Creepage), 16 ld SOIC
ADE1201	1	8	100k	48	25	SAR	Isolated SPI	14.19m	50k	707		20-Lead LSA (5mm x 8mm x 1.07mm)
ADE1202	2	8	100k	48	25	SAR	Isolated SPI	14.19m	50k	707		20-Lead LSA (5mm x 8mm x 1.07mm)
ADUM7703	1	16	21M	86	2	Sigma-Delta Modulator	Isolated Serial	46m	150k	5k	5k	8-Lead SOIC (Increased Creepage), 16 ld SOIC
ADUM7701	1	16	21M	86	2	Sigma-Delta Modulator	Isolated Serial	46m	150k	5k	5k	8-Lead SOIC (Increased Creepage), 16 ld SOIC
MAX14001	1	10	10k			SAR	Isolated SPI		50k		3.75k	20-SSOP-5.30_MM
MAX14002	1	10	10k			SAR	Isolated SPI		50k		3.75k	20-SSOP-5.30_MM
AD7402	1	16	10M	87	1	Sigma-Delta Modulator	Isolated Serial	145m	25k	5000	5k	8-Lead SOIC (Increased Creepage)

Isolated Analog-to-Digital Converter (Continued)

Part Number	Channels	Resolution bits	Sample Rate (max) SPS	ADC SNR (typ) dB	INL in LSB (typ) LSBs	Device Architecture	Data Output Interface	Power (typ) W	CMTI (min) V/us	Working Voltage VDE (typ) V	Insulation Rating V rms	Package
AD7405	1	16	20M	88	2	Sigma-Delta Modulator	Isolated Serial LVDS	208m	25k	5000	5k	16-Lead SOIC (Increased Creepage)
AD7403-8	1	16	20M	88	2	Sigma-Delta Modulator	Isolated Serial	187m	25k	5000	5k	16-Lead SOIC (Increased Creepage), 8-Lead SOIC (Increased Creepage)
ADE7912	2	24	8k	74		Sigma-Delta	Isolated SPI	41.25m		1.173k	5k	20-Lead SOIC (Increased Creepage)
ADE7913	2	24	8k	74		Sigma-Delta	Isolated SPI	41.25m		1.173k	5k	20-Lead SOIC (Increased Creepage)
AD7401A	1	16	20M	83	1.5	Sigma-Delta Modulator	Isolated Serial	93.5m	25k	5000	5k	16 ld SOIC
AD7400A	1	16	10M	80	2	Sigma-Delta Modulator	Isolated Serial	65m	25k	5000	5k	16 ld SOIC
AD7401	1	16	20M	82	2	Sigma-Delta Modulator	Isolated Serial	73.2m	25k	5000	5k	16 ld SOIC
AD7400	1	16	10M	71	2	Sigma-Delta Modulator	Isolated Serial	82m	25k	5000	5k	16 ld SOIC
MAX22532	4	12	20k			SAR	Isolated SPI		50k		5k	



Isolated Analog-to-Digital Converter

As the world's leading supplier of data converters, Analog Devices is constantly introducing new analog-to-digital converters (ADCs) that drive system architectures. In the motor control arena, ADI's converters solve the challenges associated with current and voltage monitoring, optical encoder feedback, and resolver-to-digital conversion. The introduction of the isolated ADC, with its 3.75kV standoff voltage, is one example of ADI's breakthroughs in performance and integration to ease the burden of design.

Isolation Amplifiers

Part Number	# of Channels	BW -3 dB (typ) Hz	Insulation Rating V rms	Gain (min) V/V	Gain (max) V/V	Nonlinearity % (typ) %	Vs span (min) V	Vs span (max) V	Vs Type	Package
ADUM4195-1	1	210k	5k	0.95	1.05					8-Lead SOIC (Increased Creepage)
ADUM3190S	1	400k	2.5k	0.83	2.7	0.7	3	20	Single	CER. FLATPACK WITH LEADS
ADUM4190	1	400k	5k	0.83	2.7	1	3	20	Single	16-Lead SOIC (Increased Creepage)
ADUM3190	1	400k	2.5k	0.9	2.86	1	3	20	Single	16-Lead QSOP
AD215	2	120k	1500	1	100	0.01	28.5	34	Dual	12-Lead SIP
AD203	2	10k	1500	1	10	0.025	12	16	Single	11-Lead PDIP
AD210	3	20k	2500	1	100	0.012	13.5	16.5	Single	12-Lead PDIP
AD202	2	5k	1500	1	100	0.025	13.5	16.5	Single	10-Lead PDIP, 10-Lead SIP
AD204	2	5k	1500	1	100	0.025	13.5	16.5	Single	10-Lead PDIP, 10-Lead SIP

Isolated Gate Drivers

Part Number	# Output Drivers	Iso Vout (min) V	Iso Vout (max) V	Iout Peak (typ) A	Insulation Rating V rms	CMTI (min) V/us	Working Voltage (max) Vpeak	Package
ADUM4177	1	-5.5	24	30	5.7k	150k	1.5k	28-Lead SOIC (Wide, Finer Pitch)
ADUM4146	1	-15	30	11	5k	100k	2.15k	16 Id SOIC
MAX22700E	1	20m	19.95		3k	300k		8-SOIC_N-150_MIL
MAX22702D	1	20m	19.95		3k	300k		8-SOIC_N-150_MIL, 8-SOIC_W-300_MIL
ADUM4221-1	2	4.5	35	4	5k	150k	849	16-Lead SOIC (Increased Creepage)
ADUM4221-2	2	4.5	35	4	5k	150k	849	16-Lead SOIC (Increased Creepage)
ADUM4221	2	4.5	35	4	5k	150k	849	16-Lead SOIC (Increased Creepage)
MAX22700D	1	20m	19.95		3k	300k		8-SOIC_N-150_MIL
MAX22701D	1	20m	19.95		3k	300k		8-SOIC_N-150_MIL
MAX22702E	1	20m	19.95		3k	300k		8-SOIC_N-150_MIL
MAX22701E	1	20m	19.95		3k	300k		8-SOIC_N-150_MIL, 8-SOIC_W-300_MIL
ADUM4122	1	4.5	35	3	5k	150k	849	8-Lead SOIC (Increased Creepage)
ADUM4137	1	12	25	6	5k	150k	849	28-Lead SOIC (Wide, Finer Pitch)

Isolated Gate Drivers (Continued)

Part Number	# Output Drivers	Iso Vout (min) V	Iso Vout (max) V	Iout Peak (typ) A	Insulation Rating V rms	CMTI (min) V/us	Working Voltage (max) Vpeak	Package
ADUM4138	1	12	25	6	5k	150k	849	28-Lead SOIC (Wide, Finer Pitch)
ADUM4120	1	4.5	35	2	5k	150k	849	6-Lead SOIC (Increased Creepage)
ADUM4120-1	1	4.5	35	2	5k	150k	849	6-Lead SOIC (Increased Creepage)
ADUM4121	1	4.5	35	2	5k	150k	849	8-Lead SOIC (Increased Creepage)
ADUM4121-1	1	4.5	35	2	5k	150k	849	8-Lead SOIC (Increased Creepage)
ADUM4136	1	-15	35	13	5k	100k	849	16-Lead SOIC (Increased Creepage), 16 ld SOIC
ADUM3123	1	4.5	18	4	3k	25k	537	8-Lead SOIC
ADUM4135	1	-15	30	13	5k	100k	849	16 ld SOIC
ADUM3224	2	4.5	18	4	3k	25k	560	16-Lead SOIC
ADUM4224	2	4.5	18	4	5k	25k	849	16 ld SOIC
ADUM7223	2	4.5	18	4	2.5k	25k	565	13-Lead LGA (5mm x 5mm)
ADUM3223	2	4.5	18	4	3k	25k	560	16-Lead SOIC
ADUM4223	2	4.5	18	4	5k	25k	849	16 ld SOIC
ADUM3221	2	4.5	18	4	2.5k	25k	560	8-Lead SOIC
ADUM3220	2	4.5	18	4	2.5k	25k	560	8-Lead SOIC
ADUM7234	2	12	18	4	1k	25k	350	16-Lead SOIC
ADUM6132	1	12.5	17	200m	3.75k	50k	560	16 ld SOIC
ADUM5230	2	12	18	100m	2.5k	25k		16 ld SOIC
ADUM1234	2	12	18	100m	2.5k	75k	560	16 ld SOIC
ADUM1233	2	12	18	100m	2.5k	75k	560	16 ld SOIC



Isolated Gate Drivers

Analog Devices' small form factor isolated gate drivers are designed for the higher switching speeds and system size constraints required by power switch technologies such as SiC (silicon carbide) and GaN (gallium nitride), while still providing reliable control over switching characteristics for IGBT (insulated gate bipolar transistor) and MOSFET (metal oxide semiconductor field effect transistor) configurations. These isolated gate drivers leverage ADI's proven iCoupler isolation technology combined with high-speed CMOS and monolithic transformer technology to enable ultralow propagation delay without sacrificing common-mode transient immunity (CMTI) performance. High pulse fidelity architecture enables motor power efficiency to meet new required efficiency levels, and superior timing performance stability reduces voltage distortion, as well as harmonic and output power content on solar inverters.



End Market Focus – Industrial

MARKET NEEDS:

- ▶ 4-20mA Loop Cabling Issues
- ▶ Ensuring Robust Connectivity Between Modules
- ▶ Acquisition Speed

KEY BENEFITS:

- ▶ Industry Leading Robustness
- ▶ Multiple Options for High Channel Density and High Voltage Applications
- ▶ Lowest Jitter and Propagation Delay
- ▶ 5000Vrms UL Certification
- ▶ Reinforced Isolation Option for Industrial Ethernet from MAC to PHY on Serial GigE Links

KEY PRODUCTS:

- ▶ ADuM34XE: Standard Isolator
- ▶ ADN462X: LVDS Isolator
- ▶ ADM2867E: Isolated RS485



End Market Focus – Instrumentation



MARKET NEEDS:

- ▶ Customers Need Solutions That are Fast to Adopt and Compact
- ▶ Measurement System Must Be More Robust Than Device Under Test
- ▶ High Accuracy Needed

KEY BENEFITS:

- ▶ Isolated High-Voltage Measurements in Power Electronic Converters Within Energy Signal Chains
- ▶ Robustness
- ▶ Speed

KEY PRODUCTS:

- ▶ [ADuM3195/4195](#): Variable Gain iso-Amplifier
- ▶ [ADuM4195-1](#): Fixed Gain Isolated Amplifier
- ▶ [ADuM7704](#): Isolated A/D Converters



End Market Focus – Automotive



MARKET NEEDS:

- ▶ Small Lightweight Chargers
- ▶ Need High Power and High Efficiency for Fast Charging

KEY BENEFITS:

- ▶ Isolated High-Voltage Measurements in Power Electronic Converters Within Energy Signal Chains
- ▶ High Performance SiC Gate Driver
- ▶ Real Time Control of the OBC (ADuM341E has Only 12ns Round Trip Delay)
- ▶ Low Isolation Capacitance Enables Very Low Radiated EMI (Accelerates Design Cycle)

KEY PRODUCTS:

- ▶ [ADuM341E](#): Standard Isolator
- ▶ [ADuM4195-1](#): ISO Amplifier
- ▶ [ADM3055E](#): ISO CAN

MARKET NEEDS:

- ▶ Operational Efficiency
- ▶ dv/dt Robustness
- ▶ High Isolation Requirements

KEY BENEFITS:

- ▶ High CMTI
- ▶ Accuracy of Voltage and Current Sensing
- ▶ Timing Control and Gate Strength

KEY PRODUCTS:

- ▶ MAX22700: ISO Gate Driver
- ▶ ADuM770X: ISO-Sigma Delta
- ▶ ADuM6028: ISO DC-DC Converter
- ▶ ADuM4195-1: ISO Amplifier



End Market Focus – Digital Healthcare

MARKET NEEDS:

- ▶ Patient Safety Paramount
- ▶ High Quality Video
- ▶ Must Isolate Patient from Outside World to Ensure Safety
- ▶ Detach Patient from Outside World to Ensure Safety for Regulation and Safety Reasons

KEY BENEFITS:

- ▶ Compactness
- ▶ Accelerates Time to Market
- ▶ Safety Certification
- ▶ Can Reduce System Cost for End Customer

KEY PRODUCTS:

- ▶ [ADN4624](#): Isolated LVDS
- ▶ [ADuM1250](#): Isolated I²C
- ▶ [ADuM6421A](#): ISO DC-DC Converter
- ▶ [ADuM3165](#): Isolated USB



Certifications

Safety Certifications

The iCoupler family of digital isolation products has been tested and approved by various regulatory agencies, including UL, CSA, VDE, TÜV, CQC, and now, for intrinsic safety, ATEX and IECEx. For a full listing and downloadable PDF, visit analog.com/iCouplerSafety.



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