

iCoupler and isoPower Products

Standard Digital Isolators

Part Number	Number of Data Channels				Max Data Rate (Mbps)	Max Propagation Delay (ns)	Output			Enhanced ESD	Input Supply Range (V)	Max Temperature (°C)	Package	Price @ 1k (\$U.S.)
	Total	Reverse Direction Options					Default		EN					
		0	1	2			H	L	Z					
<i>2.5 kV rms Isolation</i>														
ADuM1100A	1	•			25	18	•				3.0 to 5.5	105	8-lead SOIC_N	1.61
ADuM1100B		•			100	18	•				3.0 to 5.5	105	8-lead SOIC_N	1.84
ADuM1100U		•			100	18	•				3.0 to 5.5	125	8-lead SOIC_N	2.76
ADuM3100A		•			25	18	•			•	3.0 to 5.5	105	8-lead SOIC_N	1.69
ADuM3100B		•			100	18	•			•	3.0 to 5.5	105	8-lead SOIC_N	1.93
ADuM120xA/WS*	2	•	•		1	150	•				2.7 to 5.5	105, 125	8-lead SOIC_N	1.21/2.13
ADuM120xB/WT*		•	•		10	50	•				2.7 to 5.5	105, 125	8-lead SOIC_N	1.76/3.11
ADuM120xC/WU*		•	•		25	45	•				2.7 to 5.5	105, 125	8-lead SOIC_N	2.44/4.30
ADuM1210B		•			10	50	•	•			2.7 to 5.5	105	8-lead SOIC_N	1.76
ADuM320xA		•	•		1	150	•			•	2.7 to 5.5	105	8-lead SOIC_N	1.27
ADuM320xB		•	•		10	50	•			•	2.7 to 5.5	105	8-lead SOIC_N	1.85
ADuM320xC		•	•		25	45	•			•	2.7 to 5.5	105	8-lead SOIC_N	2.56
ADuM3210B		•			10	50	•	•		•	2.7 to 5.5	105	8-lead SOIC_N	1.85
ADuM3210T		•			10	50	•	•		•	2.7 to 5.5	125	8-lead SOIC_N	1.87
ADuM130xA/WS*	3	•	•		1	100	•		•		2.7 to 5.5	105, 125	16-lead SOIC_W	1.61/2.42
ADuM130xB/WT*		•	•		10	32	•		•		2.7 to 5.5	105, 125	16-lead SOIC_W	2.42/3.62
ADuM130xC		•	•		90	32	•		•		2.7 to 5.5	125	16-lead SOIC_W	3.65
ADuM131xA		•	•		1	100	•	•			2.7 to 5.5	105	16-lead SOIC_W	1.61
ADuM131xB		•	•		10	50	•	•			2.7 to 5.5	105	16-lead SOIC_W	2.42
ADuM330xA		•	•		1	100	•		•	•	2.7 to 5.5	105	16-lead SOIC_W	1.69
ADuM330xB		•	•		10	50	•		•	•	2.7 to 5.5	105	16-lead SOIC_W	2.54
ADuM330xC		•	•		90	32	•		•	•	2.7 to 5.5	105	16-lead SOIC_W	3.83
ADuM140xA/WS*	4	•	•	•	1	100	•			•	2.7 to 5.5	105, 125	16-lead SOIC_W	2.15/3.22
ADuM140xB/WT*		•	•	•	10	32	•			•	2.7 to 5.5	105, 125	16-lead SOIC_W	3.22/4.82
ADuM140xC		•	•	•	90	32	•			•	2.7 to 5.5	125	16-lead SOIC_W	4.31
ADuM141xA		•	•	•	1	100	•	•			2.7 to 5.5	105	16-lead SOIC_W	2.15
ADuM141xB		•	•	•	10	50	•	•			2.7 to 5.5	105	16-lead SOIC_W	3.22
ADuM340xA		•	•		1	100	•		•	•	2.7 to 5.5	105	16-lead SOIC_W	2.26
ADuM340xB		•	•		10	50	•		•	•	2.7 to 5.5	105	16-lead SOIC_W	3.38
ADuM340xC		•	•		90	32	•		•	•	2.7 to 5.5	105	16-lead SOIC_W	5.00
ADuM344xC		•	•	•	150	32	•			•	3.0 to 5.5	105	16-lead SOIC_W	5.41
ADuM1510B		5	•			10	50		•			4.5 to 5.5	105	16-lead SOIC_W
<i>5 kV rms Isolation</i>														
ADuM220xA	2	•	•		1	150	•				2.7 to 5.5	105	16-lead SOIC_W	1.64
ADuM220xB		•	•		10	50	•				2.7 to 5.5	105	16-lead SOIC_W	2.37
ADuM240xA	4	•	•	•	1	100	•				2.7 to 5.5	105	16-lead SOIC_W	3.16
ADuM240xB		•	•	•	10	50	•				2.7 to 5.5	105	16-lead SOIC_W	4.60
ADuM240xC		•	•	•	90	32	•				2.7 to 5.5	105	16-lead SOIC_W	5.95
ADuM240xC		•	•	•	90	32	•				2.7 to 5.5	105	16-lead SOIC_W	5.95

*Members of these families have achieved AEC-Q100 automotive qualification.

2.5 kV rms Digital Isolators with isoPower® Integrated, Isolated Power

Part Number	Number of Data Channels					Max Data Rate (Mbps)	Max Propagation Delay (ns)	Isolated Supply Output		Enhanced ESD	Input Supply Range (V)	Max Temperature (°C)	Package	Price @ 1k (\$U.S.)
	Total	Reverse Direction Options						Current (mA)	Range (V)					
		0	1	2	3									
ADuM5000	0					—	—	100	3.0 to 5.5	•	3.0 to 5.5	105	16-lead SOIC_W	3.16
ADuM520xA	2	•	•			1	100	100	3.0 to 5.5	•	3.0 to 5.5	105	16-lead SOIC_W	4.08
ADuM520xC		•	•			25	60	100	3.0 to 5.5	•	3.0 to 5.5	105	16-lead SOIC_W	4.63
ADuM524xA		•	•			1	70	10	4.5 to 5.5	•	2.7 to 5.5	105	8-lead SOIC_N	2.95
ADuM540xA	4	•	•	•	•	1	100	100	3.0 to 5.5	•	3.0 to 5.5	105	16-lead SOIC_W	5.00
ADuM540xC		•	•	•	•	25	60	100	3.0 to 5.5	•	3.0 to 5.5	105	16-lead SOIC_W	6.10

Isolated Gate Drivers

Part Number	Insulation Rating (kV rms)	Isolated Channels	Frequency (MHz)	Output Voltage Range (V)	Max Output Current (A)	Max Channel Matching (ns)	Isolated Supply Output		Max Working Insulation Voltage		Input Logic Levels	Max Temperature (°C)	Package	Price @ 1k (\$U.S.)
							Current (mA)	Range (V)	In-Out (V _{PEAK})	Out-Out (V _{PEAK})				
ADuM1233	2.5	2	5	12 to 18	0.1	5	—	—	700	700	TTL	105	16-lead SOIC_W	1.56
ADuM1234	2.5	2	5	12 to 18	0.1	5	—	—	700	700	CMOS	105	16-lead SOIC_W	1.56
ADuM1420	1.6	4	5	12 to 18	0.1	5	—	—	700	700	TTL	105	28-lead SOIC_W	2.30
ADuM5230	2.5	2	5	12 to 18	0.1	8	15	12 to 18	700	700	CMOS	105	16-lead SOIC_W	2.24
ADuM6132	3.75	1	1	12.5 to 17	0.2	20	22	12.5 to 17	560	—	CMOS	85	16-lead SOIC_W	2.12

Isolated I²C®-Compliant Bidirectional Digital Isolators

Part Number	Insulation Rating (kV rms)	Serial Data	Serial Clock	Max Data Rate (Mbps)	Input Supply Range (V)	Max Temperature (°C)	Package	Price @ 1k (\$U.S.)
ADuM1250	2.5	Bidirectional	Bidirectional	1	3.0 to 5.5	105	8-lead SOIC_N	3.38
ADuM1251	2.5	Bidirectional	Unidirectional	1	3.0 to 5.5	105	8-lead SOIC_N	3.05
ADuM2250	5	Bidirectional	Bidirectional	1	3.0 to 5.5	105	16-lead SOIC_W	3.99
ADuM2251	5	Bidirectional	Unidirectional	1	3.0 to 5.5	105	16-lead SOIC_W	3.59

Isolated RS-485 Transceivers

Part Number	Insulation Rating (kV rms)	Full Duplex	Half Duplex	Max Data Rate (Mbps)	Integrated Transformer Driver	Input Supply Range (V)	Max Temperature (°C)	Package	Price @ 1k (\$U.S.)
ADM2482E	2.5	•	•	16	•	3.3 to 5.5	85	16-lead SOIC_W	4.60
ADM2483	2.5	•	•	0.5	•	3.0 to 5.5	85	16-lead SOIC_W	3.00
ADM2484E	5	•	•	0.5	•	3.3 to 5.5	85	16-lead SOIC_W	3.30
ADM2485	2.5	•	•	16	•	3.0 to 5.5	85	16-lead SOIC_W	5.50
ADM2486	2.5	•	•	20	•	3.0 to 5.5	85	16-lead SOIC_W	4.98
ADM2487E	2.5	•	•	0.5	•	3.3 to 5.5	85	16-lead SOIC_W	3.60
ADM2490E	5	•	•	16	•	3.0 to 5.5	105	16-lead SOIC_W	4.50
ADM2491E	5	•	•	16	•	3.0 to 5.5	85	16-lead SOIC_W	4.70

Isolated RS-232 Transceivers

Part Number	Insulation Rating (kV rms)	ESD Protection (kV)	Max Data Rate (kbps)	Number Tx	Number Rx	Isolated Supply Output		Max Temperature (°C)	Integrated isoPower	Package	Price @ 1k (\$U.S.)
						Current (mA)	Range (V)				
ADM3251E	2.5	15	460	1	1	—	—	85	•	20-lead SOIC_W	2.99

Isolated Σ - Δ ADCs

Part Number	Insulation Rating (kV rms)	Resolution (Bits)	Clock Rate (MHz)	Clock Source	Power (mW)	Input Supply Range (V)	Package	Price @ 1k (\$U.S.)
AD7400	3.75	16	10	Internal	90	4.5 to 5.5	16-lead SOIC_W	4.00
AD7400A	3.75	16	10	Internal	85	4.5 to 5.5	8-lead PDIP_SMD	4.05
AD7401	3.75	16	18	External	90	4.5 to 5.5	16-lead SOIC_W	4.00
AD7401A	3.75	16	20	External	85	4.5 to 5.5	16-lead SOIC_W	4.00

For more information on iCoupler® products, visit our website at www.analog.com/iCoupler.