



[www.BDTIC.com/Intersil](http://www.BDTIC.com/Intersil)

8  
Interface ICs

RS-232

ESD Protected, 3V

Device	# of Tx	# of Rx	High ESD	Manual Shutdown	Auto Shutdown	Rx Disable	Data Rate (kbps)	Cap. Value (µF)	I <sub>CC</sub> Enabled (mA)	I <sub>CC</sub> Disabled (µA)	V <sub>CC</sub> Range (+V)	Package
ICL3207E	5	3	Yes	No	No	No	300	0.1	0.3	N/A	3 to 5.5	24 Ld SOIC, 24 Ld SSOP
ICL3217E	5	3	Yes	No	Basic	No	300	0.1	0.3	1	3 to 5.5	24 Ld SOIC, 24 Ld SSOP
ICL3221E	1	1	Yes	Yes	Basic	Yes	500	0.1	0.3	1	3 to 5.5	16 Ld SSOP, 16 Ld TSSOP
ICL3222E	2	2	Yes	Yes	No	Yes	500	0.1	0.3	1	3 to 5.5	18 Ld PDIP, 18 Ld SOIC, 20 Ld SSOP, 20 Ld TSSOP
ICL3223E	2	2	Yes	Yes	Basic	Yes	500	0.1	0.3	1	3 to 5.5	20 Ld SSOP, 20 Ld TSSOP
ICL3224E	2	2	Yes	Yes	Enhanced	No	500	0.1	0.3	1	3 to 5.5	20 Ld SSOP
ICL3225E	2	2	Yes	Yes	Enhanced	No	1000	0.1	0.3	1	3 to 5.5	20 Ld PDIP, 20 Ld SSOP
ICL3226E	1	1	Yes	Yes	Enhanced	No	500	0.1	0.3	1	3 to 5.5	16 Ld SSOP
ICL3227E	1	1	Yes	Yes	Enhanced	No	1000	0.1	0.3	1	3 to 5.5	16 Ld SSOP
ICL3232E	2	2	Yes	No	No	No	500	0.1	0.3	N/A	3 to 5.5	16 Ld SOIC, 16 Ld SSOP, 16 Ld TSSOP, 20 Ld TSSOP
ICL3237E	5	3	Yes	Yes	No	Yes	500/1000	0.1	0.3	0.01	3 to 5.5	20 Ld SSOP
ICL3238E	5	3	Yes	Yes	Enhanced	No	500	0.1	0.3	0.01	3 to 5.5	20 Ld SSOP, 28 Ld TSSOP
ICL3241E	3	5	Yes	Yes	No	Yes	500	0.1	0.3	1	3 to 5.5	28 Ld SOIC, 28 Ld SSOP, 28 Ld TSSOP
ICL3243E	3	5	Yes	Yes	Basic	No	500	0.1	0.3	1	3 to 5.5	28 Ld SOIC, 28 Ld SSOP, 28 Ld TSSOP
ICL3244E	3	5	Yes	Yes	Enhanced	No	500	0.1	0.3	1	3 to 5.5	28 Ld SOIC, 28 Ld SSOP
ICL3245E	3	5	Yes	Yes	Enhanced	No	1000	0.1	0.3	1	3 to 5.5	28 Ld SOIC, 28 Ld SSOP, 28 Ld TSSOP
ISL4221E	1	1	Yes	Yes	Basic	Yes	500	0.1	0.3	0.15	2.7 to 5.5	16 Ld QFN
ISL4223E	2	2	Yes	Yes	Basic	Yes	500	0.1	0.3	0.15	2.7 to 5.5	20 Ld QFN
ISL4238E	5	3	Yes	Yes	Enhanced	No	500	0.1	0.3	0.01	2.7 to 5.5	32 Ld QFN
ISL4241E	3	5	Yes	Yes	No	Yes	500	0.1	0.3	0.01	2.7 to 5.5	32 Ld QFN
ISL4243E	3	5	Yes	Yes	Basic	No	500	0.1	0.3	0.01	2.7 to 5.5	32 Ld QFN
ISL4244E	3	5	Yes	Yes	Enhanced	No	500	0.1	0.3	0.01	2.7 to 5.5	32 Ld QFN
ISL4245E	3	5	Yes	Yes	Enhanced	No	1000	0.1	0.3	0.01	2.7 to 5.5	32 Ld QFN
ISL4260E	3	2	Yes	Yes	No	No	500	0.1	0.3	0.15	3 to 5.5	32 Ld QFN
ISL4270E	3	3	Yes	Yes	Enhanced	No	500	0.1	0.3	0.3	3 to 5.5	32 Ld QFN
ISL83220E	1	1	Yes	Yes	No	Yes	500	0.1	0.3	1	3 to 5.5	16 Ld TSSOP

www.BDTIC.com/Intersil

**ESD Protected, 3V (Continued)**

Device	# of Tx	# of Rx	High ESD	Manual Shutdown	Auto Shutdown	Rx Disable	Data Rate (kbps)	Cap. Value (μF)	I <sub>CC</sub> Enabled (mA)	I <sub>CC</sub> Disabled (μA)	V <sub>CC</sub> Range (+V)	Package
ISL83384E	2	2	Yes	Yes	No	No	500	0.1	0.3	1	3 to 5.5	20 Ld SSOP
ISL83385E	2	2	Yes	Yes	No	No	500	0.1	0.3	1	3 to 5.5	18 Ld SOIC, 20 Ld SSOP
ISL83386E	3	2	Yes	Yes	No	No	500	0.1	0.3	1	3 to 5.5	20 Ld TSSOP
ISL83387E	3	3	Yes	Yes	Enhanced	No	500	0.1	0.3	1	3 to 5.5	24 Ld TSSOP
ISL8563E	2	2	Yes	Yes	No	Yes	500	0.1	0.3	1	3 to 5.5	18 Ld SOIC

**ESD Protected, 5V**

Device	# of Tx	# of Rx	High ESD	Manual Shutdown	Auto Shutdown	Rx Disable	Data Rate (kbps)	Cap. Value (μF)	I <sub>CC</sub> Enabled (mA)	I <sub>CC</sub> Disabled (μA)	V <sub>CC</sub> Range (+V)	Package
HIN202E	2	2	Yes	No	No	No	230	0.1	8	N/A	4.5 to 5.5	16 Ld PDIP, 16 Ld SOIC, 16 Ld SOT-23 T+R
HIN206E	4	3	Yes	Yes	No	Yes	230	0.1	11	1	4.5 to 5.5	24 Ld SOIC, 24 Ld SSOP
HIN207E	5	3	Yes	No	No	No	230	0.1	11	N/A	4.5 to 5.5	24 Ld SOIC, 24 Ld SSOP
HIN208E	4	4	Yes	No	No	No	230	0.1	11	N/A	4.5 to 5.5	24 Ld SOIC, 24 Ld SSOP
HIN211E	4	5	Yes	Yes	No	Yes	230	0.1	11	1	4.5 to 5.5	28 Ld SOIC, 28 Ld SSOP
HIN213E	5	5	Yes	Yes	No	Yes	230	0.1	11	1	4.5 to 5.5	28 Ld SOIC, 28 Ld SSOP
HIN232E	2	2	Yes	No	No	No	230	0.1	5	N/A	4.5 to 5.5	16 Ld PDIP, 16 Ld SOIC, 16 Ld SSOP, 16 Ld TSSOP

**High Speed, 3V**

Device	# of Tx	# of Rx	High ESD	Manual Shutdown	Auto Shutdown	Rx Disable	Data Rate (kbps)	Cap. Value (μF)	I <sub>CC</sub> Enabled (mA)	I <sub>CC</sub> Disabled (μA)	V <sub>CC</sub> Range (+V)	Package
ICL3207	5	3	No	No	No	No	300	0.1	0.3	N/A	3 to 5.5	24 Ld SOIC, 24 Ld SSOP
ICL3217	5	3	No	No	Basic	No	300	0.1	0.3	1	3 to 5.5	24 Ld SOIC, 24 Ld SSOP
ICL3221	1	1	No	Yes	Basic	Yes	500	0.1	0.3	1	3 to 5.5	16 Ld SSOP, 16 Ld TSSOP
ICL3222	2	2	No	Yes	No	Yes	500	0.1	0.3	1	3 to 5.5	18 Ld PDIP, 18 Ld SOIC, 20 Ld SSOP, 20 Ld TSSOP
ICL3223	2	2	No	Yes	Basic	Yes	500	0.1	0.3	1	3 to 5.5	20 Ld PDIP, 20 Ld SSOP, 20 Ld TSSOP
ICL3224	2	2	No	Yes	Enhanced	No	500	0.1	0.3	1	3 to 5.5	20 Ld SSOP
ICL3225	2	2	No	Yes	Enhanced	No	1000	0.1	0.3	1	3 to 5.5	20 Ld PDIP, 20 Ld SSOP
ICL3226	1	1	No	Yes	Enhanced	No	500	0.1	0.3	1	3 to 5.5	16 Ld SSOP

**High Speed, 3V (Continued)**

Device	# of Tx	# of Rx	High ESD	Manual Shutdown	Auto Shutdown	Rx Disable	Data Rate (kbps)	Cap. Value (μF)	I <sub>CC</sub> Enabled (mA)	I <sub>CC</sub> Disabled (μA)	V <sub>CC</sub> Range (+V)	Package
ICL3232	2	2	No	No	No	No	500	0.1	0.3	N/A	3 to 5.5	16 Ld PDIP, 16 Ld SOIC, 16 Ld SSOP, 16 Ld TSSOP
ICL3237	5	3	No	Yes	No	Yes	500/1000	0.1	0.3	1	3 to 5.5	28 Ld SSOP
ICL3238	5	3	No	Yes	Enhanced	No	500	0.1	0.3	1	3 to 5.5	28 Ld SSOP
ICL3241	3	5	No	Yes	No	Yes	500	0.1	0.3	1	3 to 5.5	28 Ld SOIC, 28 Ld SSOP, 28 Ld TSSOP
ICL3243	3	5	No	Yes	Basic	No	500	0.1	0.3	1	3 to 5.5	28 Ld SOIC, 28 Ld SSOP, 28 Ld TSSOP
ICL3244	3	5	No	Yes	Enhanced	No	500	0.1	0.3	1	3 to 5.5	28 Ld SSOP
ICL3245	3	5	No	Yes	Enhanced	No	1000	0.1	0.3	1	3 to 5.5	28 Ld SSOP, 28 Ld TSSOP

**High Speed, 5V**

Device	# of Tx	# of Rx	High ESD	Manual Shutdown	Auto Shutdown	Rx Disable	Data Rate (kbps)	Cap. Value (μF)	I <sub>CC</sub> Enabled (mA)	I <sub>CC</sub> Disabled (μA)	V <sub>CC</sub> Range (+V)	Package
HIN232A	2	2	No	No	No	No	230	0.1	5	N/A	4.5 to 5.5	16 Ld PDIP, 16 Ld SOIC

**Standard, 5V**

Device	# of Tx	# of Rx	High ESD	Manual Shutdown	Auto Shutdown	Rx Disable	Data Rate (kbps)	Cap. Value (μF)	I <sub>CC</sub> Enabled (mA)	I <sub>CC</sub> Disabled (μA)	V <sub>CC</sub> Range (+V)	Package
HIN202	2	2	No	No	No	No	120	0.1	8	N/A	4.5 to 5.5	16 Ld PDIP, 16 Ld SOIC
HIN206	4	3	No	Yes	No	Yes	120	0.1	11	1	4.5 to 5.5	24 Ld SOIC
HIN207	5	3	No	No	No	No	120	0.1	11	N/A	4.5 to 5.5	24 Ld SOIC, 24 Ld SSOP
HIN208	4	4	No	No	No	No	120	0.1	11	N/A	4.5 to 5.5	24 Ld SOIC
HIN211	4	5	No	Yes	No	Yes	120	0.1	11	1	4.5 to 5.5	28 Ld SOIC, 28 Ld SSOP
HIN213	4	5	No	Yes	No	Yes	120	0.1	11	15	4.5 to 5.5	28 Ld SSOP
HIN232	2	2	No	No	No	No	120	1	5	N/A	4.5 to 5.5	16 Ld PDIP, 16 Ld SOIC
HIN236	4	3	No	Yes	No	Yes	120	1	7	1	4.5 to 5.5	24 Ld SOIC
HIN237	5	3	No	No	No	No	120	1	7	N/A	4.5 to 5.5	24 Ld SOIC
HIN238	4	4	No	No	No	No	120	1	7	N/A	4.5 to 5.5	24 Ld PDIP, 24 Ld SOIC
HIN239	3	5	No	No	No	Yes	120	1	0.4/5	N/A	4.5 to 5.5	24 Ld PDIP, 24 Ld SOIC
HIN240	5	5	No	Yes	No	Yes	120	1	7	1	4.5 to 5.5	44 Ld MQFP

**Standard, 5V (Continued)**

Device	# of Tx	# of Rx	High ESD	Manual Shutdown	Auto Shutdown	Rx Disable	Data Rate (kbps)	Cap. Value (µF)	I <sub>CC</sub> Enabled (mA)	I <sub>CC</sub> Disabled (µA)	V <sub>CC</sub> Range (+V)	Package
HIN241	4	5	No	Yes	No	Yes	120	1	7	1	4.5 to 5.5	28 Ld SOIC, 28 Ld SSOP
ICL232	2	2	No	No	No	No	120	1	5	N/A	4.5 to 5.5	16 Ld CerDIP, 16 Ld PDIP, 16 Ld SOIC

RS-485/RS-422

**IEC61000 15kV ESD**

**3.3V, Fractional UL, 15kV ESD, Full Failsafe**

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS (µA)	SHDN I <sub>CC</sub> (µA)	V <sub>CC</sub> Range (+V)	Package
ISL3170E	1/1	256	Full	Yes-IEC61000	Yes	0.25	Yes	Yes	510/480	0.01	3.0 to 3.6	10 Ld MSOP, 14 Ld SOIC
ISL3171E	1/1	256	Full	Yes-IEC61000	Yes	0.25	Yes	No	510/480	N/A	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC
ISL3172E	1/1	256	Half	Yes-IEC61000	Yes	0.25	Yes	Yes	510/480	0.01	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC
ISL3173E	1/1	256	Full	Yes-IEC61000	Yes	0.5	Yes	Yes	510/480	0.01	3.0 to 3.6	10 Ld MSOP, 14 Ld SOIC
ISL3174E	1/1	256	Full	Yes-IEC61000	Yes	0.5	Yes	No	510/480	N/A	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC
ISL3175E	1/1	256	Half	Yes-IEC61000	Yes	0.5	Yes	Yes	510/480	0.01	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC
ISL3176E	1/1	256	Full	Yes-IEC61000	Yes	20	No	Yes	510/480	0.01	3.0 to 3.6	10 Ld MSOP, 14 Ld SOIC
ISL3177E	1/1	256	Full	Yes-IEC61000	Yes	20	No	No	510/480	N/A	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC
ISL3178E	1/1	256	Half	Yes-IEC61000	Yes	20	No	Yes	510/480	0.01	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC

**5V, Fractional UL, 15kV ESD, Full Failsafe**

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS (µA)	SHDN I <sub>CC</sub> (µA)	V <sub>CC</sub> Range (+V)	Package
ISL3150E	1/1	256	Full	Yes-IEC61000	Yes	0.115	Yes	Yes	800/700	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL3152E	1/1	256	Half	Yes-IEC61000	Yes	0.115	Yes	Yes	800/700	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL3153E	1/1	256	Full	Yes-IEC61000	Yes	1	Yes	Yes	800/700	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL3155E	1/1	256	Half	Yes-IEC61000	Yes	1	Yes	Yes	800/700	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL3156E	1/1	256	Full	Yes-IEC61000	Yes	20	No	Yes	800/700	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL3158E	1/1	256	Half	Yes-IEC61000	Yes	20	No	Yes	800/700	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC

8  
Interface ICs

## HBM 15kV ESD

### 5V, 1UL, Half Duplex

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS ( $\mu$ A)	SHDN I <sub>CC</sub> ( $\mu$ A)	V <sub>CC</sub> Range (+V)	Package
ISL4485E	1/1	32	Half	Yes	No	20	No	Yes	550/340	N/A	4.5 to 5.5	8 Ld SOIC
ISL8483E	1/1	32	Half	Yes	No	0.25	Yes	Yes	390/160	0.001	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL8485E	1/1	32	Half	Yes	No	5	No	Yes	550/340	N/A	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC

### 5V, 1UL, Full Duplex

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS ( $\mu$ A)	SHDN I <sub>CC</sub> ( $\mu$ A)	V <sub>CC</sub> Range (+V)	Package
ISL8488E	1/1	32	Full	Yes	No	0.25	Yes	No	120/120	N/A	4.5 to 5.5	8 Ld SOIC
ISL8489E	1/1	32	Full	Yes	No	0.25	Yes	Yes	140/140	N/A	4.5 to 5.5	14 Ld SOIC
ISL8491E	1/1	32	Full	Yes	No	10	No	Yes	370/370	N/A	4.5 to 5.5	14 Ld SOIC

### 5V, Fractional UL, Half Duplex

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS ( $\mu$ A)	SHDN I <sub>CC</sub> ( $\mu$ A)	V <sub>CC</sub> Range (+V)	Package
ISL8487E	1/1	256	Half	Yes	No	0.25	Yes	Yes	160/120	0.001	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL81487L	1/1	256	Half	Yes	No	0.25	Yes	Yes	160/120	0.001	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL81487E	1/1	256	Half	Yes	No	5	No	Yes	400/350	N/A	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL83082E	1/1	256	Half	Yes	Yes	0.115	Yes	Yes	560/530	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL83085E	1/1	256	Half	Yes	Yes	0.5	Yes	Yes	560/530	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL83088E	1/1	256	Half	Yes	No	10	No	Yes	560/530	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC

### 5V, Fractional UL, Full Duplex

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS ( $\mu$ A)	SHDN I <sub>CC</sub> ( $\mu$ A)	V <sub>CC</sub> Range (+V)	Package
ISL4489E	1/1	256	Full	Yes	No	0.25	Yes	Yes	140/140	N/A	4.5 to 5.5	14 Ld SOIC
ISL4491E	1/1	256	Full	Yes	No	15	No	Yes	370/370	N/A	4.5 to 5.5	14 Ld SOIC
ISL83080E	1/1	256	Full	Yes	Yes	0.115	Yes	Yes	530/530	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL83083E	1/1	256	Full	Yes	Yes	0.5	Yes	Yes	530/530	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL83086E	1/1	256	Full	Yes	No	10	No	Yes	530/530	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC

**3.3V, Fractional UL, 15kV ESD, Full Failsafe**

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS ( $\mu$ A)	SHDN I <sub>CC</sub> ( $\mu$ A)	V <sub>CC</sub> Range (+V)	Package
ISL83070E	1/1	256	Full	Yes	Yes	0.25	Yes	Yes	510/480	0.01	3.0 to 3.6	14 Ld SOIC
ISL83071E	1/1	256	Full	Yes	Yes	0.25	Yes	No	510	0.01	3.0 to 3.6	8 Ld SOIC
ISL83072E	1/1	256	Half	Yes	Yes	0.25	Yes	Yes	510/480	0.01	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC
ISL83073E	1/1	256	Full	Yes	Yes	0.5	Yes	Yes	510/480	0.01	3.0 to 3.6	14 Ld SOIC
ISL83075E	1/1	256	Half	Yes	Yes	0.5	Yes	Yes	510/480	0.01	3.0 to 3.6	8 Ld MSOP T+R, 8 Ld SOIC
ISL83076E	1/1	256	Full	Yes	Yes	20	No	Yes	510/480	0.01	3.0 to 3.6	14 Ld SOIC
ISL83077E	1/1	256	Full	Yes	Yes	20	No	No	510/480	N/A	3.0 to 3.6	8 Ld SOIC
ISL83078E	1/1	256	Half	Yes	Yes	20	No	Yes	510/480	0.01	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC

**5V 1UL**

**High ESD, 5V**

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS ( $\mu$ A)	SHDN I <sub>CC</sub> ( $\mu$ A)	V <sub>CC</sub> Range (+V)	Package
ISL4485E	1/1	32	Half	Yes	No	20	No	Yes	550/340	N/A	4.5 to 5.5	8 Ld SOIC
ISL8483E	1/1	32	Half	Yes	No	0.25	Yes	Yes	390/160	0.001	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL8485E	1/1	32	Half	Yes	No	5	No	Yes	550/340	N/A	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL8488E	1/1	32	Full	Yes	No	0.25	Yes	No	120/120	N/A	4.5 to 5.5	8 Ld SOIC
ISL8489E	1/1	32	Full	Yes	No	0.25	Yes	Yes	140/140	N/A	4.5 to 5.5	14 Ld SOIC
ISL8491E	1/1	32	Full	Yes	No	10	No	Yes	370/370	N/A	4.5 to 5.5	14 Ld SOIC

**Standard Half Duplex, 5V**

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS ( $\mu$ A)	SHDN I <sub>CC</sub> ( $\mu$ A)	V <sub>CC</sub> Range (+V)	Package
ISL4485E	1/1	32	Half	Yes	No	20	No	Yes	550/340	N/A	4.5 to 5.5	8 Ld SOIC
ISL4486	1/1	50	Half	No	No	40	No	Yes	1000/800	N/A	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL81485	1/1	32	Half	No	No	30	No	Yes	1000/800	N/A	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL81486	1/1	50	Half	No	No	30	No	Yes	1000/800	N/A	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL8483	1/1	32	Half	No	No	0.25	Yes	Yes	390/160	0.001	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL8483E	1/1	32	Half	Yes	No	0.25	Yes	Yes	390/160	0.001	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL8485	1/1	32	Half	No	No	5	No	Yes	550/340	N/A	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL8485E	1/1	32	Half	Yes	No	5	No	Yes	550/340	N/A	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC

**Standard Full Duplex, 5V**

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS ( $\mu$ A)	SHDN I <sub>CC</sub> ( $\mu$ A)	V <sub>CC</sub> Range (+V)	Package
ISL8488	1/1	32	Full	No	No	0.25	Yes	No	160/160	N/A	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL8488E	1/1	32	Full	Yes	No	0.25	Yes	No	120/120	N/A	4.5 to 5.5	8 Ld SOIC
ISL8489	1/1	32	Full	No	No	0.25	Yes	Yes	160/160	N/A	4.5 to 5.5	14 Ld PDIP, 14 Ld SOIC
ISL8489E	1/1	32	Full	Yes	No	0.25	Yes	Yes	140/140	N/A	4.5 to 5.5	14 Ld SOIC
ISL8490	1/1	32	Full	No	No	5	No	No	340/340	N/A	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL8491	1/1	32	Full	No	No	5	No	Yes	340/340	N/A	4.5 to 5.5	14 Ld PDIP, 14 Ld SOIC
ISL8491E	1/1	32	Full	Yes	No	10	No	Yes	370/370	N/A	4.5 to 5.5	14 Ld SOIC

**Standard High Speed, 5V**

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS ( $\mu$ A)	SHDN I <sub>CC</sub> ( $\mu$ A)	V <sub>CC</sub> Range (+V)	Package
ISL4485E	1/1	32	Half	Yes	No	20	No	Yes	550/340	N/A	4.5 to 5.5	8 Ld SOIC
ISL4486	1/1	50	Half	No	No	40	No	Yes	1000/800	N/A	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL81485	1/1	32	Half	No	No	30	No	Yes	1000/800	N/A	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL81486	1/1	50	Half	No	No	40	No	Yes	1000/800	N/A	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL8485	1/1	32	Half	No	No	5	No	Yes	550/340	N/A	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL8485E	1/1	32	Half	Yes	No	5	No	Yes	550/340	N/A	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL8490	1/1	32	Full	No	No	5	No	No	340/340	N/A	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL8491	1/1	32	Full	No	No	5	No	Yes	340/340	N/A	4.5 to 5.5	14 Ld PDIP, 14 Ld SOIC
ISL8491E	1/1	32	Full	Yes	No	10	No	Yes	370/370	N/A	4.5 to 5.5	14 Ld SOIC

**Standard Slew Rate Limited, 5V**

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS ( $\mu$ A)	SHDN I <sub>CC</sub> ( $\mu$ A)	V <sub>CC</sub> Range (+V)	Package
ISL8483	1/1	32	Half	No	No	0.25	Yes	Yes	390/160	0.001	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL8483E	1/1	32	Half	Yes	No	0.25	Yes	Yes	390/160	0.001	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL8488	1/1	32	Full	No	No	0.25	Yes	No	160/160	N/A	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL8488E	1/1	32	Full	Yes	No	0.25	Yes	No	120/120	N/A	4.5 to 5.5	8 Ld SOIC
ISL8489	1/1	32	Full	No	No	0.25	Yes	Yes	160/160	N/A	4.5 to 5.5	14 Ld PDIP, 14 Ld SOIC
ISL8489E	1/1	32	Full	Yes	No	0.25	Yes	Yes	140/140	N/A	4.5 to 5.5	14 Ld SOIC

## 5V Fractional UL

### High ESD - Rx Failsafe Open

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS ( $\mu$ A)	SHDN I <sub>CC</sub> ( $\mu$ A)	V <sub>CC</sub> Range (+V)	Package
ISL4489E	1/1	256	Full	Yes	No	0.25	Yes	Yes	140/140	N/A	4.5 to 5.5	14 Ld SOIC
ISL4491E	1/1	256	Full	Yes	No	15	No	Yes	370/370	N/A	4.5 to 5.5	14 Ld SOIC
ISL81487L	1/1	256	Half	Yes	No	0.25	Yes	Yes	160/120	0.001	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL81487E	1/1	256	Half	Yes	No	5	No	Yes	400/350	N/A	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL8487E	1/1	256	Half	Yes	No	0.25	Yes	Yes	160/120	0.001	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC

### High ESD - Rx Full Failsafe

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS ( $\mu$ A)	SHDN I <sub>CC</sub> ( $\mu$ A)	V <sub>CC</sub> Range (+V)	Package
ISL3150E	1/1	256	Full	Yes-IEC61000	Yes	0.115	Yes	Yes	800/700	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL3152E	1/1	256	Half	Yes-IEC61000	Yes	0.115	Yes	Yes	800/700	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL3153E	1/1	256	Full	Yes-IEC61000	Yes	1	Yes	Yes	800/700	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL3155E	1/1	256	Half	Yes-IEC61000	Yes	1	Yes	Yes	800/700	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL3156E	1/1	256	Full	Yes-IEC61000	Yes	20	No	Yes	800/700	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL3158E	1/1	256	Half	Yes-IEC61000	Yes	20	No	Yes	800/700	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL83080E	1/1	256	Full	Yes	Yes	0.115	Yes	Yes	530/530	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL83082E	1/1	256	Half	Yes	Yes	0.115	Yes	Yes	560/530	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL83083E	1/1	256	Full	Yes	Yes	0.5	Yes	Yes	530/530	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL83085E	1/1	256	Half	Yes	Yes	0.5	Yes	Yes	560/530	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL83086E	1/1	256	Full	Yes	No	10	No	Yes	530/530	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL83088E	1/1	256	Half	Yes	No	10	No	Yes	560/530	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC

**Half Duplex**

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS (μA)	SHDN I <sub>CC</sub> (μA)	V <sub>CC</sub> Range (+V)	Package
ISL3152E	1/1	256	Half	Yes-IEC61000	Yes	0.115	Yes	Yes	800/700	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL3155E	1/1	256	Half	Yes-IEC61000	Yes	1	Yes	Yes	800/700	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL3158E	1/1	256	Half	Yes-IEC61000	Yes	20	No	Yes	800/700	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL81487	1/1	256	Half	No	No	5	No	Yes	400/350	N/A	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL81487L	1/1	256	Half	Yes	No	0.25	Yes	Yes	160/120	0.001	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL81487E	1/1	256	Half	Yes	No	5	No	Yes	400/350	N/A	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL81483	1/1	256	Half	No	No	0.25	Yes	Yes	160/120	0.001	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL8487	1/1	128	Half	No	No	0.25	Yes	Yes	160/120	0.001	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL8487E	1/1	256	Half	Yes	No	0.25	Yes	Yes	160/120	0.001	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL83082E	1/1	256	Half	Yes	Yes	0.115	Yes	Yes	560/530	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL83085E	1/1	256	Half	Yes	Yes	0.5	Yes	Yes	560/530	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL83088E	1/1	256	Half	Yes	No	10	No	Yes	560/530	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC

**Full Duplex**

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS (μA)	SHDN I <sub>CC</sub> (μA)	V <sub>CC</sub> Range (+V)	Package
ISL3150E	1/1	256	Full	Yes-IEC61000	Yes	0.115	Yes	Yes	800/700	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL3153E	1/1	256	Full	Yes-IEC61000	Yes	1	Yes	Yes	800/700	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL3156E	1/1	256	Full	Yes-IEC61000	Yes	20	No	Yes	800/700	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL4489E	1/1	256	Full	Yes	No	0.25	Yes	Yes	140/140	N/A	4.5 to 5.5	14 Ld SOIC
ISL4491E	1/1	256	Full	Yes	No	15	No	Yes	370/370	N/A	4.5 to 5.5	14 Ld SOIC
ISL83080E	1/1	256	Full	Yes	Yes	0.115	Yes	Yes	530/530	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL83083E	1/1	256	Full	Yes	Yes	0.5	Yes	Yes	530/530	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL83086E	1/1	256	Full	Yes	No	10	No	Yes	530/530	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC

**High Speed**

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS ( $\mu$ A)	SHDN I <sub>CC</sub> ( $\mu$ A)	V <sub>CC</sub> Range (+V)	Package
ISL3156E	1/1	256	Full	Yes-IEC61000	Yes	20	No	Yes	800/700	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL3158E	1/1	256	Half	Yes-IEC61000	Yes	20	No	Yes	800/700	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL4491E	1/1	256	Full	Yes	No	15	No	Yes	370/370	N/A	4.5 to 5.5	14 Ld SOIC
ISL81487	1/1	256	Half	No	No	5	No	Yes	400/350	N/A	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL81487E	1/1	256	Half	Yes	No	5	No	Yes	400/350	N/A	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL83086E	1/1	256	Full	Yes	No	10	No	Yes	530/530	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL83088E	1/1	256	Half	Yes	No	10	No	Yes	560/530	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC

**Slew Rate Limited**

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS ( $\mu$ A)	SHDN I <sub>CC</sub> ( $\mu$ A)	V <sub>CC</sub> Range (+V)	Package
ISL3150E	1/1	256	Full	Yes-IEC61000	Yes	0.115	Yes	Yes	800/700	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL3152E	1/1	256	Half	Yes-IEC61000	Yes	0.115	Yes	Yes	800/700	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL3153E	1/1	256	Full	Yes-IEC61000	Yes	1	Yes	Yes	800/700	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL3155E	1/1	256	Half	Yes-IEC61000	Yes	1	Yes	Yes	800/700	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL4489E	1/1	256	Full	Yes	No	0.25	Yes	Yes	140/140	N/A	4.5 to 5.5	14 Ld SOIC
ISL81483	1/1	256	Half	No	No	0.25	Yes	Yes	160/120	0.001	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL81487L	1/1	256	Half	Yes	No	0.25	Yes	Yes	160/120	0.001	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL8487	1/1	128	Half	No	No	0.25	Yes	Yes	160/120	0.001	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL8487E	1/1	256	Half	Yes	No	0.25	Yes	Yes	160/120	0.001	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL83080E	1/1	256	Full	Yes	Yes	0.115	Yes	Yes	530/530	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL83082E	1/1	256	Half	Yes	Yes	0.115	Yes	Yes	560/530	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL83083E	1/1	256	Full	Yes	Yes	0.5	Yes	Yes	530/530	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL83085E	1/1	256	Half	Yes	Yes	0.5	Yes	Yes	560/530	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC

### 3.3V 1UL

#### Standard Half Duplex, 3.3V

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS ( $\mu$ A)	SHDN I <sub>CC</sub> ( $\mu$ A)	V <sub>CC</sub> Range (+V)	Package
ISL43485	1/1	32	Half	No	No	30	No	Yes	750/650	0.015	3.0 to 3.6	8 Ld SOIC
ISL83483	1/1	32	Half	No	No	0.25	Yes	Yes	750/650	0.015	3.0 to 3.6	8 Ld PDIP, 8 Ld SOIC
ISL83485	1/1	32	Half	No	No	10	No	Yes	750/650	0.015	3.0 to 3.6	8 Ld PDIP, 8 Ld SOIC

#### Standard Full Duplex, 3.3V

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS ( $\mu$ A)	SHDN I <sub>CC</sub> ( $\mu$ A)	V <sub>CC</sub> Range (+V)	Package
ISL83488	1/1	32	Full	No	No	0.25	Yes	No	650/650	N/A	3.0 to 3.6	8 Ld PDIP, 8 Ld SOIC
ISL83490	1/1	32	Full	No	No	10	No	No	650/650	N/A	3.0 to 3.6	8 Ld PDIP, 8 Ld SOIC
ISL83491	1/1	32	Full	No	No	10	No	Yes	650/650	0.015	3.0 to 3.6	14 Ld PDIP, 14 Ld SOIC

#### Standard High Speed, 3.3V

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS ( $\mu$ A)	SHDN I <sub>CC</sub> ( $\mu$ A)	V <sub>CC</sub> Range (+V)	Package
ISL43485	1/1	32	Half	No	No	30	No	Yes	750/650	0.015	3.0 to 3.6	8 Ld SOIC
ISL83485	1/1	32	Half	No	No	10	No	Yes	750/650	0.015	3.0 to 3.6	8 Ld PDIP, 8 Ld SOIC
ISL83490	1/1	32	Full	No	No	10	No	No	650/650	N/A	3.0 to 3.6	8 Ld PDIP, 8 Ld SOIC
ISL83491	1/1	32	Full	No	No	10	No	Yes	650/650	0.015	3.0 to 3.6	14 Ld PDIP, 14 Ld SOIC

#### Standard Slew Rate Limited, 3.3V

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS ( $\mu$ A)	SHDN I <sub>CC</sub> ( $\mu$ A)	V <sub>CC</sub> Range (+V)	Package
ISL83483	1/1	32	Half	No	No	0.25	Yes	Yes	750/650	0.015	3.0 to 3.6	8 Ld PDIP, 8 Ld SOIC
ISL83488	1/1	32	Full	No	No	0.25	Yes	No	650/650	N/A	3.0 to 3.6	8 Ld PDIP, 8 Ld SOIC

### 3.3V, Fractional UL, 15kV ESD, Full Failsafe Half Duplex

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS ( $\mu$ A)	SHDN I <sub>CC</sub> ( $\mu$ A)	V <sub>CC</sub> Range (+V)	Package
ISL3172E	1/1	256	Half	Yes-IEC61000	Yes	0.25	Yes	Yes	510/480	0.01	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC
ISL3175E	1/1	256	Half	Yes-IEC61000	Yes	0.5	Yes	Yes	510/480	0.01	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC
ISL3178E	1/1	256	Half	Yes-IEC61000	Yes	20	No	Yes	510/480	0.01	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC
ISL83072E	1/1	256	Half	Yes	Yes	0.25	Yes	Yes	510/480	0.01	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC
ISL83075E	1/1	256	Half	Yes	Yes	0.5	Yes	Yes	510/480	0.01	3.0 to 3.6	8 Ld MSOP T+R, 8 Ld SOIC
ISL83078E	1/1	256	Half	Yes	Yes	20	No	Yes	510/480	0.01	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC

### Full Duplex

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS ( $\mu$ A)	SHDN I <sub>CC</sub> ( $\mu$ A)	V <sub>CC</sub> Range (+V)	Package
ISL3170E	1/1	256	Full	Yes-IEC61000	Yes	0.25	Yes	Yes	510/480	0.01	3.0 to 3.6	10 Ld MSOP, 14 Ld SOIC
ISL3171E	1/1	256	Full	Yes-IEC61000	Yes	0.25	Yes	No	510/480	N/A	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC
ISL3173E	1/1	256	Full	Yes-IEC61000	Yes	0.5	Yes	Yes	510/480	0.01	3.0 to 3.6	10 Ld MSOP, 14 Ld SOIC
ISL3174E	1/1	256	Full	Yes-IEC61000	Yes	0.5	Yes	No	510/480	N/A	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC
ISL3176E	1/1	256	Full	Yes-IEC61000	Yes	20	No	Yes	510/480	0.01	3.0 to 3.6	10 Ld MSOP, 14 Ld SOIC
ISL3177E	1/1	256	Full	Yes-IEC61000	Yes	20	No	No	510/480	N/A	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC
ISL83070E	1/1	256	Full	Yes	Yes	0.25	Yes	Yes	510/480	0.01	3.0 to 3.6	14 Ld SOIC
ISL83071E	1/1	256	Full	Yes	Yes	0.25	Yes	No	510	0.01	3.0 to 3.6	8 Ld SOIC
ISL83073E	1/1	256	Full	Yes	Yes	0.5	Yes	Yes	510/480	0.01	3.0 to 3.6	14 Ld SOIC
ISL83076E	1/1	256	Full	Yes	Yes	20	No	Yes	510/480	0.01	3.0 to 3.6	14 Ld SOIC
ISL83077E	1/1	256	Full	Yes	Yes	20	No	No	510/480	N/A	3.0 to 3.6	8 Ld SOIC

### High Speed

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS ( $\mu$ A)	SHDN I <sub>CC</sub> ( $\mu$ A)	V <sub>CC</sub> Range (+V)	Package
ISL3176E	1/1	256	Full	Yes-IEC61000	Yes	20	No	Yes	510/480	0.01	3.0 to 3.6	10 Ld MSOP, 14 Ld SOIC
ISL3177E	1/1	256	Full	Yes-IEC61000	Yes	20	No	No	510/480	N/A	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC
ISL3178E	1/1	256	Half	Yes-IEC61000	Yes	20	No	Yes	510/480	0.01	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC

**High Speed (Continued)**

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS ( $\mu$ A)	SHDN I <sub>CC</sub> ( $\mu$ A)	V <sub>CC</sub> Range (+V)	Package
ISL83076E	1/1	256	Full	Yes	Yes	20	No	Yes	510/480	0.01	3.0 to 3.6	14 Ld SOIC
ISL83077E	1/1	256	Full	Yes	Yes	20	No	No	510/480	N/A	3.0 to 3.6	8 Ld SOIC
ISL83078E	1/1	256	Half	Yes	Yes	20	No	Yes	510/480	0.01	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC

**Slew Rate Limited**

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS ( $\mu$ A)	SHDN I <sub>CC</sub> ( $\mu$ A)	V <sub>CC</sub> Range (+V)	Package
ISL3170E	1/1	256	Full	Yes-IEC61000	Yes	0.25	Yes	Yes	510/480	0.01	3.0 to 3.6	10 Ld MSOP, 14 Ld SOIC
ISL3171E	1/1	256	Full	Yes-IEC61000	Yes	0.25	Yes	No	510/480	N/A	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC
ISL3172E	1/1	256	Half	Yes-IEC61000	Yes	0.25	Yes	Yes	510/480	0.01	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC
ISL3173E	1/1	256	Full	Yes-IEC61000	Yes	0.5	Yes	Yes	510/480	0.01	3.0 to 3.6	10 Ld MSOP, 14 Ld SOIC
ISL3174E	1/1	256	Full	Yes-IEC61000	Yes	0.5	Yes	No	510/480	N/A	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC
ISL3175E	1/1	256	Half	Yes-IEC61000	Yes	0.5	Yes	Yes	510/480	0.01	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC
ISL83070E	1/1	256	Full	Yes	Yes	0.25	Yes	Yes	510/480	0.01	3.0 to 3.6	14 Ld SOIC
ISL83071E	1/1	256	Full	Yes	Yes	0.25	Yes	No	510	0.01	3.0 to 3.6	8 Ld SOIC
ISL83072E	1/1	256	Half	Yes	Yes	0.25	Yes	Yes	510/480	0.01	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC
ISL83073E	1/1	256	Full	Yes	Yes	0.5	Yes	Yes	510/480	0.01	3.0 to 3.6	14 Ld SOIC
ISL83075E	1/1	256	Half	Yes	Yes	0.5	Yes	Yes	510/480	0.01	3.0 to 3.6	8 Ld MSOP T+R, 8 Ld SOIC

**>15Mbps Data Rate**

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS ( $\mu$ A)	SHDN I <sub>CC</sub> ( $\mu$ A)	V <sub>CC</sub> Range (+V)	Package
ISL3156E	1/1	256	Full	Yes-IEC61000	Yes	20	No	Yes	800/700	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL3158E	1/1	256	Half	Yes-IEC61000	Yes	20	No	Yes	800/700	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL3176E	1/1	256	Full	Yes-IEC61000	Yes	20	No	Yes	510/480	0.01	3.0 to 3.6	10 Ld MSOP, 14 Ld SOIC
ISL3177E	1/1	256	Full	Yes-IEC61000	Yes	20	No	No	510/480	N/A	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC
ISL3178E	1/1	256	Half	Yes-IEC61000	Yes	20	No	Yes	510/480	0.01	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC
ISL43485	1/1	32	Half	No	No	30	No	Yes	750/650	0.015	3.0 to 3.6	8 Ld SOIC
ISL4485E	1/1	32	Half	Yes	No	20	No	Yes	550/340	N/A	4.5 to 5.5	8 Ld SOIC

>15Mbps Data Rate (Continued)

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS (μA)	SHDN I <sub>CC</sub> (μA)	V <sub>CC</sub> Range (+V)	Package
ISL4486	1/1	50	Half	No	No	40	No	Yes	1000/800	N/A	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL4491E	1/1	256	Full	Yes	No	15	No	Yes	370/370	N/A	4.5 to 5.5	14 Ld SOIC
ISL81485	1/1	32	Half	No	No	30	No	Yes	1000/800	N/A	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL81486	1/1	50	Half	No	No	30	No	Yes	1000/800	N/A	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL83076E	1/1	256	Full	Yes	Yes	20	No	Yes	510/480	0.01	3.0 to 3.6	14 Ld SOIC
ISL83077E	1/1	256	Full	Yes	Yes	20	No	No	510/480	N/A	3.0 to 3.6	8 Ld SOIC
ISL83078E	1/1	256	Half	Yes	Yes	20	No	Yes	510/480	0.01	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC

5Mbps Data Rate

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS (μA)	SHDN I <sub>CC</sub> (μA)	V <sub>CC</sub> Range (+V)	Package
ISL8485	1/1	32	Half	No	No	5	No	Yes	550/340	N/A	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL8485E	1/1	32	Half	Yes	No	5	No	Yes	550/340	N/A	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL8490	1/1	32	Full	No	No	5	No	No	340/340	N/A	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL8491	1/1	32	Full	No	No	5	No	Yes	340/340	N/A	4.5 to 5.5	14 Ld PDIP, 14 Ld SOIC
ISL81487	1/1	256	Half	No	No	5	No	Yes	400/350	N/A	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL81487E	1/1	256	Half	Yes	No	5	No	Yes	400/350	N/A	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC

10Mbps Data Rate

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS (μA)	SHDN I <sub>CC</sub> (μA)	V <sub>CC</sub> Range (+V)	Package
ISL8491E	1/1	32	Full	Yes	No	10	No	Yes	370/370	N/A	4.5 to 5.5	14 Ld SOIC
ISL83485	1/1	32	Half	No	No	10	No	Yes	750/650	0.015	3.0 to 3.6	8 Ld PDIP, 8 Ld SOIC
ISL83490	1/1	32	Full	No	No	10	No	No	650/650	N/A	3.0 to 3.6	8 Ld PDIP, 8 Ld SOIC
ISL83491	1/1	32	Full	No	No	10	No	Yes	650/650	0.015	3.0 to 3.6	14 Ld PDIP, 14 Ld SOIC
ISL83086E	1/1	256	Full	Yes	No	10	No	Yes	530/530	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL83088E	1/1	256	Half	Yes	No	10	No	Yes	560/530	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC

### Full Failsafe (Rx Open/Rx Short)

#### 5V, Fractional UL, 15kV ESD

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS ( $\mu$ A)	SHDN I <sub>CC</sub> ( $\mu$ A)	V <sub>CC</sub> Range (+V)	Package
ISL3150E	1/1	256	Full	Yes-IEC61000	Yes	0.115	Yes	Yes	800/700	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL3152E	1/1	256	Half	Yes-IEC61000	Yes	0.115	Yes	Yes	800/700	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL3153E	1/1	256	Full	Yes-IEC61000	Yes	1	Yes	Yes	800/700	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL3155E	1/1	256	Half	Yes-IEC61000	Yes	1	Yes	Yes	800/700	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL3156E	1/1	256	Full	Yes-IEC61000	Yes	20	No	Yes	800/700	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL3158E	1/1	256	Half	Yes-IEC61000	Yes	20	No	Yes	800/700	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL83080E	1/1	256	Full	Yes	Yes	0.115	Yes	Yes	530/530	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL83082E	1/1	256	Half	Yes	Yes	0.115	Yes	Yes	560/530	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL83083E	1/1	256	Full	Yes	Yes	0.5	Yes	Yes	530/530	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL83085E	1/1	256	Half	Yes	Yes	0.5	Yes	Yes	560/530	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL83086E	1/1	256	Full	Yes	No	10	No	Yes	530/530	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL83088E	1/1	256	Half	Yes	No	10	No	Yes	560/530	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC

#### 3.3V, Fractional UL, 15kV ESD, Full Failsafe

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS ( $\mu$ A)	SHDN I <sub>CC</sub> ( $\mu$ A)	V <sub>CC</sub> Range (+V)	Package
ISL3170E	1/1	256	Full	Yes-IEC61000	Yes	0.25	Yes	Yes	510/480	0.01	3.0 to 3.6	10 Ld MSOP, 14 Ld SOIC
ISL3171E	1/1	256	Full	Yes-IEC61000	Yes	0.25	Yes	No	510/480	N/A	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC
ISL3172E	1/1	256	Half	Yes-IEC61000	Yes	0.25	Yes	Yes	510/480	0.01	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC
ISL3173E	1/1	256	Full	Yes-IEC61000	Yes	0.5	Yes	Yes	510/480	0.01	3.0 to 3.6	10 Ld MSOP, 14 Ld SOIC
ISL3174E	1/1	256	Full	Yes-IEC61000	Yes	0.5	Yes	No	510/480	N/A	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC
ISL3175E	1/1	256	Half	Yes-IEC61000	Yes	0.5	Yes	Yes	510/480	0.01	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC
ISL3176E	1/1	256	Full	Yes-IEC61000	Yes	20	No	Yes	510/480	0.01	3.0 to 3.6	10 Ld MSOP, 14 Ld SOIC
ISL3177E	1/1	256	Full	Yes-IEC61000	Yes	20	No	No	510/480	N/A	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC
ISL3178E	1/1	256	Half	Yes-IEC61000	Yes	20	No	Yes	510/480	0.01	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC

**3.3V, Fractional UL, 15kV ESD, Full Failsafe (Continued)**

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS (μA)	SHDN I <sub>CC</sub> (μA)	V <sub>CC</sub> Range (+V)	Package
ISL83070E	1/1	256	Full	Yes	Yes	0.25	Yes	Yes	510/480	0.01	3.0 to 3.6	14 Ld SOIC
ISL83071E	1/1	256	Full	Yes	Yes	0.25	Yes	No	510	0.01	3.0 to 3.6	8 Ld SOIC
ISL83072E	1/1	256	Half	Yes	Yes	0.25	Yes	Yes	510/480	0.01	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC
ISL83073E	1/1	256	Full	Yes	Yes	0.5	Yes	Yes	510/480	0.01	3.0 to 3.6	14 Ld SOIC
ISL83075E	1/1	256	Half	Yes	Yes	0.5	Yes	Yes	510/480	0.01	3.0 to 3.6	8 Ld MSOP T+R, 8 Ld SOIC
ISL83076E	1/1	256	Full	Yes	Yes	20	No	Yes	510/480	0.01	3.0 to 3.6	14 Ld SOIC
ISL83077E	1/1	256	Full	Yes	Yes	20	No	No	510/480	N/A	3.0 to 3.6	8 Ld SOIC
ISL83078E	1/1	256	Half	Yes	Yes	20	No	Yes	510/480	0.01	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC

**Hot Plug**

**5V, Fractional UL, 15kV ESD**

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS (μA)	SHDN I <sub>CC</sub> (μA)	V <sub>CC</sub> Range (+V)	Package
ISL3150E	1/1	256	Full	Yes-IEC61000	Yes	0.115	Yes	Yes	800/700	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL3152E	1/1	256	Half	Yes-IEC61000	Yes	0.115	Yes	Yes	800/700	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL3153E	1/1	256	Full	Yes-IEC61000	Yes	1	Yes	Yes	800/700	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL3155E	1/1	256	Half	Yes-IEC61000	Yes	1	Yes	Yes	800/700	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL3156E	1/1	256	Full	Yes-IEC61000	Yes	20	No	Yes	800/700	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL3158E	1/1	256	Half	Yes-IEC61000	Yes	20	No	Yes	800/700	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL83080E	1/1	256	Full	Yes	Yes	0.115	Yes	Yes	530/530	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL83082E	1/1	256	Half	Yes	Yes	0.115	Yes	Yes	560/530	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL83083E	1/1	256	Full	Yes	Yes	0.5	Yes	Yes	530/530	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL83085E	1/1	256	Half	Yes	Yes	0.5	Yes	Yes	560/530	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC

8  
Interface ICs

**3.3V, Fractional UL, 15kV ESD, Full Failsafe**

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS ( $\mu$ A)	SHDN I <sub>CC</sub> ( $\mu$ A)	V <sub>CC</sub> Range (+V)	Package
ISL3170E	1/1	256	Full	Yes-IEC61000	Yes	0.25	Yes	Yes	510/480	0.01	3.0 to 3.6	10 Ld MSOP, 14 Ld SOIC
ISL3171E	1/1	256	Full	Yes-IEC61000	Yes	0.25	Yes	No	510/480	N/A	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC
ISL3172E	1/1	256	Half	Yes-IEC61000	Yes	0.25	Yes	Yes	510/480	0.01	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC
ISL3173E	1/1	256	Full	Yes-IEC61000	Yes	0.5	Yes	Yes	510/480	0.01	3.0 to 3.6	10 Ld MSOP, 14 Ld SOIC
ISL3174E	1/1	256	Full	Yes-IEC61000	Yes	0.5	Yes	No	510/480	N/A	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC
ISL3175E	1/1	256	Half	Yes-IEC61000	Yes	0.5	Yes	Yes	510/480	0.01	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC
ISL3176E	1/1	256	Full	Yes-IEC61000	Yes	20	No	Yes	510/480	0.01	3.0 to 3.6	10 Ld MSOP, 14 Ld SOIC
ISL3177E	1/1	256	Full	Yes-IEC61000	Yes	20	No	No	510/480	N/A	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC
ISL3178E	1/1	256	Half	Yes-IEC61000	Yes	20	No	Yes	510/480	0.01	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC
ISL83070E	1/1	256	Full	Yes	Yes	0.25	Yes	Yes	510/480	0.01	3.0 to 3.6	14 Ld SOIC
ISL83072E	1/1	256	Half	Yes	Yes	0.25	Yes	Yes	510/480	0.01	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC
ISL83073E	1/1	256	Full	Yes	Yes	0.25	Yes	Yes	510/480	0.01	3.0 to 3.6	14 Ld SOIC
ISL83075E	1/1	256	Half	Yes	Yes	0.5	Yes	Yes	510/480	0.01	3.0 to 3.6	8 Ld MSOP T+R, 8 Ld SOIC
ISL83076E	1/1	256	Full	Yes	Yes	20	No	Yes	510/480	0.01	3.0 to 3.6	14 Ld SOIC
ISL83077E	1/1	256	Full	Yes	Yes	20	No	No	510/480	N/A	3.0 to 3.6	8 Ld SOIC
ISL83078E	1/1	256	Half	Yes	Yes	20	No	Yes	510/480	0.01	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC

**Low Current Shutdown**

**3.3V Supply**

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS ( $\mu$ A)	SHDN I <sub>CC</sub> ( $\mu$ A)	V <sub>CC</sub> Range (+V)	Package
ISL3170E	1/1	256	Full	Yes-IEC61000	Yes	0.25	Yes	Yes	510/480	0.01	3.0 to 3.6	10 Ld MSOP, 14 Ld SOIC
ISL3172E	1/1	256	Half	Yes-IEC61000	Yes	0.25	Yes	Yes	510/480	0.01	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC
ISL3173E	1/1	256	Full	Yes-IEC61000	Yes	0.5	Yes	Yes	510/480	0.01	3.0 to 3.6	10 Ld MSOP, 14 Ld SOIC
ISL3175E	1/1	256	Half	Yes-IEC61000	Yes	0.5	Yes	Yes	510/480	0.01	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC
ISL3176E	1/1	256	Full	Yes-IEC61000	Yes	20	No	Yes	510/480	0.01	3.0 to 3.6	10 Ld MSOP, 14 Ld SOIC
ISL3178E	1/1	256	Half	Yes-IEC61000	Yes	20	No	Yes	510/480	0.01	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC

**3.3V Supply (Continued)**

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS ( $\mu$ A)	SHDN I <sub>CC</sub> ( $\mu$ A)	V <sub>CC</sub> Range (+V)	Package
ISL43485	1/1	32	Half	No	No	30	No	Yes	750/650	0.015	3.0 to 3.6	8 Ld SOIC
ISL83070E	1/1	256	Full	Yes	Yes	0.25	Yes	Yes	510/480	0.01	3.0 to 3.6	14 Ld SOIC
ISL83072E	1/1	256	Half	Yes	Yes	0.25	Yes	Yes	510/480	0.01	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC
ISL83073E	1/1	256	Full	Yes	Yes	0.5	Yes	Yes	510/480	0.01	3.0 to 3.6	14 Ld SOIC
ISL83075E	1/1	256	Half	Yes	Yes	0.5	Yes	Yes	510/480	0.01	3.0 to 3.6	8 Ld MSOP T+R, 8 Ld SOIC
ISL83076E	1/1	256	Full	Yes	Yes	20	No	Yes	510/480	0.01	3.0 to 3.6	14 Ld SOIC
ISL83078E	1/1	256	Half	Yes	Yes	20	No	Yes	510/480	0.01	3.0 to 3.6	8 Ld MSOP, 8 Ld SOIC
ISL83483	1/1	32	Half	No	No	0.25	Yes	Yes	750/650	0.015	3.0 to 3.6	8 Ld PDIP, 8 Ld SOIC
ISL83485	1/1	32	Half	No	No	10	No	Yes	750/650	0.015	3.0 to 3.6	8 Ld PDIP, 8 Ld SOIC
ISL83491	1/1	32	Full	No	No	10	No	Yes	650/650	0.015	3.0 to 3.6	14 Ld PDIP, 14 Ld SOIC

**5V Supply**

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS ( $\mu$ A)	SHDN I <sub>CC</sub> ( $\mu$ A)	V <sub>CC</sub> Range (+V)	Package
ISL3150E	1/1	256	Full	Yes-IEC61000	Yes	0.115	Yes	Yes	800/700	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL3152E	1/1	256	Half	Yes-IEC61000	Yes	0.115	Yes	Yes	800/700	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL3153E	1/1	256	Full	Yes-IEC61000	Yes	1	Yes	Yes	800/700	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL3155E	1/1	256	Half	Yes-IEC61000	Yes	1	Yes	Yes	800/700	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL3156E	1/1	256	Full	Yes-IEC61000	Yes	20	No	Yes	800/700	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL3158E	1/1	256	Half	Yes-IEC61000	Yes	20	No	Yes	800/700	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL81483	1/1	256	Half	No	No	0.25	Yes	Yes	160/120	0.001	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL81487L	1/1	256	Half	Yes	No	0.25	Yes	Yes	160/120	0.001	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL83080E	1/1	256	Full	Yes	Yes	0.115	Yes	Yes	530/530	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL83082E	1/1	256	Half	Yes	Yes	0.115	Yes	Yes	560/530	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL83083E	1/1	256	Full	Yes	Yes	0.5	Yes	Yes	530/530	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC
ISL83085E	1/1	256	Half	Yes	Yes	0.5	Yes	Yes	560/530	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL83086E	1/1	256	Full	Yes	No	10	No	Yes	530/530	0.07	4.5 to 5.5	10 Ld MSOP, 14 Ld SOIC

**5V Supply (Continued)**

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS ( $\mu$ A)	SHDN I <sub>CC</sub> ( $\mu$ A)	V <sub>CC</sub> Range (+V)	Package
ISL83088E	1/1	256	Half	Yes	No	10	No	Yes	560/530	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL8483	1/1	32	Half	No	No	0.25	Yes	Yes	390/160	0.001	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL8483E	1/1	32	Half	Yes	No	0.25	Yes	Yes	390/160	0.001	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL8487	1/1	128	Half	No	No	0.25	Yes	Yes	160/120	0.001	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC
ISL8487E	1/1	256	Half	Yes	No	0.25	Yes	Yes	160/120	0.001	4.5 to 5.5	8 Ld PDIP, 8 Ld SOIC

**PROFIBUS Compatible**

Device	# of Tx/ # of Rx	Devices Allowed on Bus	Half/Full Duplex	High ESD	Hot Plug	Data Rate (Mbps)	Slew Rate Limited	Tx/Rx Enable	I <sub>CC</sub> EN/DIS ( $\mu$ A)	SHDN I <sub>CC</sub> ( $\mu$ A)	V <sub>CC</sub> Range (+V)	Package
ISL3152E	1/1	256	Half	Yes-IEC61000	Yes	0.115	Yes	Yes	800/700	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL3155E	1/1	256	Half	Yes-IEC61000	Yes	1	Yes	Yes	800/700	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL3158E	1/1	256	Half	Yes-IEC61000	Yes	20	No	Yes	800/700	0.07	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL4486	1/1	50	Half	No	No	40	No	Yes	1000/800	N/A	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC
ISL81486	1/1	50	Half	No	No	30	No	Yes	1000/800	N/A	4.5 to 5.5	8 Ld MSOP, 8 Ld SOIC

**Multi-Protocol**

**RS-232 and RS-485**

**5V, Single Port**

Device	Supported Protocols	# of Ports	# of Tx/ Rx per Port	High ESD (kV)	Data Rate RS-485/ RS-232 (Mbps)	RS-485 Rx Failsafe Type	V <sub>LOGIC</sub> Supply Pin?	RXEN Polarity	Loopback Feature?	Operating I <sub>CC</sub> RS-485/ RS-232 (mA)	SHDN I <sub>CC</sub> ( $\mu$ A)	V <sub>CC</sub> Range (V)	Package
ISL41387	RS-232, RS-422, RS-485	1	1/1 RS-485, RS-422; 2/2 RS-232	15	20, 0.46, 0.115/0.5	Full	Yes	High and Low	Yes	1.6/3.7	35	5	40 Ld QFN
ISL81387	RS-232, RS-422, RS-485	1	1/1 RS-485, RS-422; 2/2 RS-232	15	20, 0.46/0.5	Full	No	High	Yes	1.6/3.7	35	5	20 Ld SOIC, 20 Ld SSOP

**5V, Dual Port**

Device	Supported Protocols	# of Ports	# of Tx/Rx per Port	High ESD (kV)	Data Rate RS-485/RS-232 (Mbps)	RS-485 Rx Failsafe Type	V <sub>LOGIC</sub> Supply Pin?	RXEN Polarity	Loopback Feature?	Operating I <sub>CC</sub> RS-485/RS-232 (mA)	SHDN I <sub>CC</sub> (μA)	V <sub>CC</sub> Range (V)	Package
ISL41334	RS-232, RS-422, RS-485	2	1/1 RS-485, RS-422; 2/2 RS-232	15	20, 0.46, 0.115/0.5	Full	Yes	Low	Yes	1.6/3.7	80	5	40 Ld QFN
ISL81334	RS-232, RS-422, RS-485	2	1/1 RS-485, RS-422; 2/2 RS-232	15	20/0.5	Full	No	None	Yes	1.6/3.7	42	5	28 Ld SOIC, 28 Ld SSOP

**High ESD**

Device	Supported Protocols	# of Ports	# of Tx/Rx per Port	High ESD (kV)	Data Rate RS-485/RS-232 (Mbps)	RS-485 Rx Failsafe Type	V <sub>LOGIC</sub> Supply Pin?	RXEN Polarity	Loopback Feature?	Operating I <sub>CC</sub> RS-485/RS-232 (mA)	SHDN I <sub>CC</sub> (μA)	V <sub>CC</sub> Range (V)	Package
ISL41334	RS-232, RS-422, RS-485	2	1/1 RS-485, RS-422; 2/2 RS-232	15	20, 0.46, 0.115/0.5	Full	Yes	Low	Yes	1.6/3.7	80	5	40 Ld QFN
ISL41387	RS-232, RS-422, RS-485	1	1/1 RS-485, RS-422; 2/2 RS-232	15	20, 0.46, 0.115/0.5	Full	Yes	High and Low	Yes	1.6/3.7	35	5	40 Ld QFN
ISL81334	RS-232, RS-422, RS-485	2	1/1 RS-485, RS-422; 2/2 RS-232	15	20/0.5	Full	No	None	Yes	1.6/3.7	42	5	28 Ld SOIC, 28 Ld SSOP
ISL81387	RS-232, RS-422, RS-485	1	1/1 RS-485, RS-422; 2/2 RS-232	15	20, 0.46/0.5	Full	No	High	Yes	1.6/3.7	35	5	20 Ld SOIC, 20 Ld SSOP

www.BDTIC.com/Intersil

**Selectable RS-485 Data Rate**

Device	Supported Protocols	# of Ports	# of Tx/Rx per Port	High ESD (kV)	Data Rate RS-485/RS-232 (Mbps)	RS-485 Rx Failsafe Type	V <sub>LOGIC</sub> Supply Pin?	RXEN Polarity	Loopback Feature?	Operating I <sub>CC</sub> RS-485/RS-232 (mA)	SHDN I <sub>CC</sub> (μA)	V <sub>CC</sub> Range (V)	Package
ISL41334	RS-232, RS-422, RS-485	2	1/1 RS-485, RS-422; 2/2 RS-232	15	20, 0.46, 0.115/0.5	Full	Yes	Low	Yes	1.6/3.7	80	5	40 Ld QFN
ISL41387	RS-232, RS-422, RS-485	1	1/1 RS-485, RS-422; 2/2 RS-232	15	20, 0.46, 0.115/0.5	Full	Yes	High and Low	Yes	1.6/3.7	35	5	40 Ld QFN
ISL81387	RS-232, RS-422, RS-485	1	1/1 RS-485, RS-422; 2/2 RS-232	15	20, 0.46/0.5	Full	No	High	Yes	1.6/3.7	35	5	20 Ld SOIC, 20 Ld SSOP

**I<sup>2</sup>C and SMBus Buffers and Accelerators**

Device	V <sub>TRIPL</sub> (V)	V <sub>TRIPH</sub> (V)	Standby Pull-Up Current (μA)	Active Pull-Up Current (μA)	Boost Pull-Up Current (mA)	Supply Voltage Range (V)	Package
ISL88694	0.75	V <sub>DD</sub> -0.50	80	275	2.2	2.7 to 5.5	5 Ld SOT-23