

TI RS-232 IEC ESD-Protected Devices

Device	Supply Voltage (V)	Drivers	Receivers	Shutdown	Speed (kbps)	ESD Ratings			Common Applications
						Contact (kV)	Air Gap (kV)	HBM (kV)	
TRS3243E	+3 to +5	3	5	Auto	500	8	15	15	PC, Notebook, Server, Modem
TRS3222E	+3 to +5	2	2	Manual	500	8	15	15	Portables, Video Recorder, IP Phone
TRS3221E	+3 to +5	1	1	Auto	250	8	15	15	PDA, IP Phone, Palmtop Computer
TRS3227	+3 to +5	1	1	Auto+	1000	8	8	15	Portables, PDA, Cell Phone
TRS3386E	+3 to +5 V _{CC} Down to 1.8 V _L	3	2	Manual	250	8	15	15	Portables, Data Cable, Cell Phone, PDA
TRS213	+5	4	5	Manual	120	—	—	15	Industrial Automation, TV
TRSF3221E	+3 to +5	1	1	Auto	1000	8	15	15	PDA, IP Phone, Palmtop Computer
TRS3223E	+3 to +5	2	2	Auto	500	8	15	15	PDA, Cell Phone, Portables
TRS3318	+2.25 to +3	2	2	Auto+	500	8	8	15	Handheld Equipment, Pager, Cell Phone
TRS3227E	+3 to +5	1	1	Auto	1000	8	15	15	PDA, Cell Phone, IP Phone
TRS3232E	+3 to +5	2	2	No	250	8	15	15	Set-Top Box, DVD Recorder, IP Phone
TRSF3232E	+3 to +5	2	2	No	1000	8	15	15	Set-Top Box, DVD Recorder, IP Phone
TRS3238E	+3 to +5	5	3	Auto+	400	8	15	15	Data Cable, Car Phone, Printer, Modem
TRSF3222E	+3 to +5	2	2	Manual	1000	8	15	15	Portables, Video Recorder, IP Phone
TRSF3223E	+3 to +5	2	2	Auto	1000	8	15	15	Portables, Video Recorder, IP Phone
TRS232E	+5	2	2	No	120	8	15	15	Industrial Control, Router, Modem
TRSF3238E	+3 to +5	5	3	Auto+	1000	8	15	15	Data Cable, Car Phone, Printer, Modem
TRS3237E	+3 to +5	5	3	Auto	1000	8	15	15	Cell Phone, Cable, Industrial Automation, Printer, Modem

5- x 5-mm, 32-pin QFN package (RHB)

(60% smaller than the TSSOP):

- TRS3243E: 3 drivers/5 receivers with auto power-down
- TRS3238E: 5 drivers/3 receivers with auto power-down plus
- TRS3237E: 5 drivers/3 receivers with speed select pin



For More Information

For more information about TI's IEC ESD products and a complete listing of RS-232 solutions, visit:

www.ti.com/rs232

For other logic samples, datasheets, application reports and design summaries, visit:

logic.ti.com

5.5- x 3.5-mm, 24-pin QFN package (RHL)

(54% smaller than the TSSOP):

- TRS3222E: 2 drivers/2 receivers with manual power-down
- TRS3223E: 2 drivers/2 receivers with auto power-down



Important Notice: The products and services of Texas Instruments Incorporated and its subsidiaries described herein are sold subject to TI's standard terms and conditions of sale. Customers are advised to obtain the most current and complete information about TI products and services before placing orders. TI assumes no liability for applications assistance, customer's applications or product designs, software performance, or infringement of patents. The publication of information regarding any other company's products or services does not constitute TI's approval, warranty or endorsement thereof.

Safe Harbor Statement: This publication may contain forward-looking statements that involve a number of risks and uncertainties. These "forward-looking statements" are intended to qualify for the safe harbor from liability established by the Private Securities Litigation Reform Act of 1995. These forward-looking statements generally can be identified by phrases such as TI or its management "believes," "expects," "anticipates," "foresees," "forecasts," "estimates" or other words or phrases of similar import. Similarly, such statements herein that describe the company's products, business strategy, outlook, objectives, plans, intentions or goals also are forward-looking statements. All such forward-looking statements are subject to certain risks and uncertainties that could cause actual results to differ materially from those in forward-looking statements. Please refer to TI's most recent Form 10-K for more information on the risks and uncertainties that could materially affect future results of operations. We disclaim any intention or obligation to update any forward-looking statements as a result of developments occurring after the date of this publication.

The red/black banner, Technology for Innovators and curving stream design are trademarks of Texas Instruments.

B062907