

RS-485 Transceiver Half-Duplex

	<u>THVD1505</u>	<u>THVD1500</u> <u>THVD1520</u>	<u>THVD1510</u> <u>THVD1550</u>	<u>THVD1400</u> <u>THVD1420</u>	<u>THVD1406</u> <u>THVD1426</u>	<u>THVD1410</u> <u>THVD1450</u>	<u>THVD1419</u> <u>THVD1429</u>	<u>THVD2410</u> <u>THVD2450</u>	<u>THVD8010</u> <u>THVD8000</u>
Feature	Auto Polarity Correction + IEC ESD, EFT	IEC ESD + IEC EFT	High IEC ESD + IEC EFT	IEC ESD + IEC EFT	Automatic Direction Control	High IEC ESD + IEC EFT	IEC Surge + ESD + EFT	High bus fault + Wide common mode range	RS-485 over power line, OOK
Supply Voltage	5V	5V	5V	3.3V to 5V	3.3V to 5V	3.3V to 5V	3.3V to 5V	3.3V to 5V	3.3V to 5V
Maximum data rate	1 Mbps	1500: 0.5 Mbps 1520: 10 Mbps	1510: 0.5 Mbps 1550: 50Mbps	1400: 0.5 Mbps 1420: 12 Mbps	1406: 0.5 Mbps 1426: 12 Mbps	1410: 0.5 Mbps 1450: 50Mbps	1419: 0.25Mbps 1429: 20 Mbps	2410: 0.5 Mbps 2450: 50Mbps	OOK max freq. 8010: 300KHz 8000: 5MHz
Extended bus fault protection	-18V to 18V	-18V to 18V	-18V to 18V	-16V to 16V	-16V to 16V	-18V to 18V	-15V to 15V	-70V to 70V	-18V to 18V
Extended common mode range	-7V to 12V	-7V to 12V	-15V to 15V	-7V to 12V	-7V to 12V	-15V to 15V	-12V to 12V	-25V to 25V	-7V to 12V
Integrated IEC 61000-4-2 ESD protection	8kV	8kV	18kV	8kV	8kV	18kV	8kV	12kV	8kV
Integrated IEC 61000-4-4 EFT protection	2kV	1500: 2kV 1520: 4kV	4kV	4kV	4kV	4kV	4kV	4kV	4kV
Integrated IEC 61000-4-5 Surge protection							2.5 kV		
HBM ESD	16kV	16kV	30kV	16kV	16kV	30kV	16kV	16kV	16kV
Package, Temperature	SOIC-8 (5x4mm) -40 to 125C	SOIC-8 (5x4mm) -40 to 125C	SOIC-8 (5x4mm) VSSOP-8 (3x3mm) -40 to 125C	SOIC-8 (5x4mm) SOT-8 (2.1x1.2mm) -40 to 125C	SOIC-8 (5x4mm) SOT-8 (2.1x1.2mm) -40 to 125C	SOIC-8 (5x4mm) VSSOP-8 (3x3mm) VSON-8 ₁₄₅₀ (3x3mm) -40 to 125C	SOIC-8 (5x4mm) -40 to 125C	SOIC-8 (5x4mm) VSSOP-8, VSON-8 (3x3mm) -40 to 125C	SOT-8 (2.9x1.6mm) -40 to 125C

RS-485 Transceiver Full-Duplex

	<u>THVD1512</u>	<u>THVD1551</u> <u>THVD1552</u>	<u>SN65HVD1791</u> <u>SN65HVD1792</u>	<u>SN65HVD1793</u>	<u>SN65HVD1470</u> <u>SN65HVD1471</u>	<u>SN65HVD1473</u> <u>SN65HVD1474</u>	<u>THVD1451</u> <u>THVD1452</u>
Feature	High IEC ESD + IEC EFT	High IEC ESD + IEC EFT	High bus fault + Wide common mode range	High bus fault + Wide common mode range	High IEC ESD + IEC EFT	High IEC ESD + IEC EFT	High IEC ESD + IEC EFT
Supply Voltage	5V	5V	5V	5V	3.3V	3.3V	3.3V to 5V
Maximum data rate	0.5 Mbps	50 Mbps	91: 0.115 Mbps 92: 1Mbps	10 Mbps	0.4 Mbps	20 Mbps	50 Mbps
Extended bus fault protection	-18V to 18V	-18V to 18V	-70V to 70V	-30V to 30V	-13V to 16.5V	-13V to 16.5V	-18V to 18V
Extended common mode range	-15V to 15V	-15V to 15V	-20V to 25V	-20V to 25V	-7V to 12V	-7V to 12V	-15V to 15V
Integrated IEC 61000-4-2 ESD protection	18kV	18kV	-	-	16kV	16kV	18kV
Integrated IEC 61000-4-4 EFT protection	4kV	4kV	-	-	4kV	4kV	4kV
HBM ESD	30kV	30kV	16kV	16kV	30kV	30kV	30kV
Package, Temperature	VSSOP-10 (3x3mm) -40 to 125C	51: VSSOP-8 (3x3mm) 52: VSSOP-10 (3x3mm), SOIC-14 (8.6x4mm) -40 to 125C	SOIC-14 (8.6x4mm) -40 to 105C	SOIC-14 (8.6x4mm) -40 to 105C	70: MSOP-10 (3x3mm), SOIC-14 (8.6x4mm) 71: MSOP-8 (3x3mm), SOIC-8 (5x4mm) -40 to 125C	73: MSOP-10 (3x3mm), SOIC-14 (8.6x4mm) 74: MSOP-8 (3x3mm), SOIC-8 (5x4mm) -40 to 125C	51: VSON-8 (3x3mm), SOIC-8 (5x4mm) 52: VSSOP-10 (3x3mm), SOIC-14 (8.6x4mm) -40 to 125C