

Radiation Hardened Quad Differential Line Receivers

HS-26CT32RH, HS-26CT32EH

The Intersil HS-26CT32RH, HS-26CT32EH are differential line receivers designed for digital data transmission over balanced lines and meets the requirements of EIA standard RS-422. Radiation hardened CMOS processing assures low power consumption, high speed, and reliable operation in the most severe radiation environments.

The HS-26CT32RH, HS-26CT32EH have an input sensitivity typically of 200mV over the common mode input voltage range of $\pm 7V$. The receivers are also equipped with input fail safe circuitry, which causes the outputs to go to a logic "1" when the inputs are open. Enable and Disable functions are common to all four receivers.

Specifications for Rad Hard QML devices are controlled by the Defense Logistics Agency Land and Maritime (DLA). The SMD numbers listed in the "Ordering Information" must be used when ordering.

Detailed Electrical Specifications for these devices are contained in SMD [5962-95631](#). A "hot-link" is also provided on our homepage for downloading.

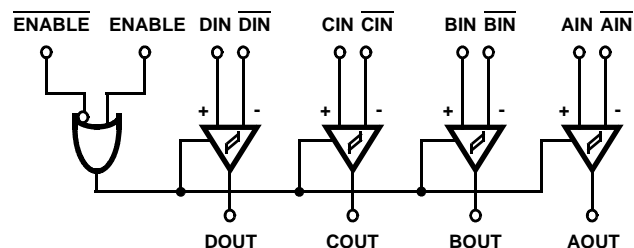
Features

- Electrically Screened to SMD # [5962-95631](#)
- QML Qualified per MIL-PRF-38535 Requirements
- 1.2 Micron Radiation Hardened CMOS
 - Total Dose Up to 300kRAD(Si)
- Latch-up Free
- EIA RS-422 Compatible Outputs
- Operation with TTL Based on $V_{IH} = V_{DD}/2$
- Input Fail Safe Circuitry
- High Impedance Inputs when Disabled or Powered Down
- Low Power Dissipation Standby (Max)138mW
- Single 5V Supply
- Full Military Temperature Range -55°C to +125°C

Applications

- Line Receiver for MIL-STD-1553 Serial Data Bus
- Line Receiver for RS422

Logic Diagram



Ordering Information

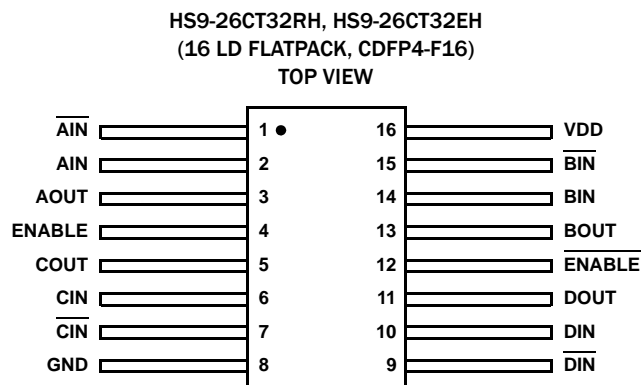
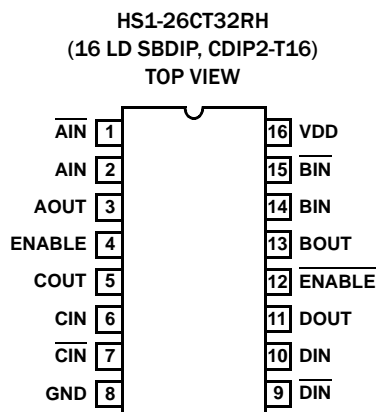
ORDERING NUMBER	INTERNAL MKT. NUMBER	PART MARKING	TEMP. RANGE (°C)	PACKAGE	PKG. DWG. #
5962F9563101QEC	HS1-26CT32RH-8	Q 5962F95 63101QEC	-55 to +125	16 Ld SBDIP	D16.3
5962F9563101QXC	HS9-26CT32RH-8	Q 5962F95 63101QXC	-55 to +125	16 Ld Flatpack	K16.A
5962F9563101V9A	HS0-26CT32RH-Q		-55 to +125	Die	
5962F9563101VEC	HS1-26CT32RH-Q	Q 5962F95 63101VEC	-55 to +125	16 Ld SBDIP	D16.3
5962F9563101VXC	HS9-26CT32RH-Q	Q 5962F95 63101VXC	-55 to +125	16 Ld Flatpack	K16.A
5962F9563102VXC	HS9-26CT32EH-Q	Q 5962F95 63102VXC	-55 to +125	16 Ld Flatpack	K16.A
HS1-26CT32RH/PROTO	HS1-26CT32RH/PROTO	HS1- 26CT32RH /PROTO	-55 to +125	16 Ld SBDIP	D16.3
HS9-26CT32RH/PROTO	HS9-26CT32RH/PROTO	HS9- 26CT32RH /PROTO	-55 to +125	16 Ld Flatpack	K16.A
5962F9563102VEC	HS1-26CT32EH-Q	Q 5962F95 63102VEC	-55 to +125	16 Ld SBDIP	D16.3

HS-26CT32RH, HS-26CT32EH

Ordering Information (Continued)

ORDERING NUMBER	INTERNAL MKT. NUMBER	PART MARKING	TEMP. RANGE (°C)	PACKAGE	PKG. DWG. #
5962F9563102VXC	HS9-26CT32EH-Q	Q 5962F95 63102VXC	-55 to +125	16 Ld Flatpack	K16.A
5962F9563102V9A	HS0-26CT32EH-Q		-55 to +125	Die	

Pin Configurations



For additional products, see www.intersil.com/product_tree

Intersil products are manufactured, assembled and tested utilizing ISO9000 quality systems as noted in the quality certifications found at www.intersil.com/design/quality

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