# Device Information

HS-26CT31RH

Printer Friendly Version

**Differential Line Driver, Quad, TTL Inputs and Enable, 5V, Rad-Hard**

**Get Datasheet**

**Ordering Information**

| Part No. | Status | Temp. | Package | MSL | SMD | Price US $ | |
|---|---|---|---|---|---|---|---|
| HS1-26CT31RH-8 | Active | Mil | 16 Ld CerDIP | N/A | 5962F9563201QEC | Contact Us | Buy |
| HS1-26CT31RH-Q | Active | Mil | 16 Ld CerDIP | N/A | 5962F9563201VEC | Contact Us | Buy |
| HS1-26CT31RH-T | Active | Mil | 16 Ld CerDIP | N/A | 5962R9563201TEC | Contact Us | Buy |
| HS9-26CT31RH-8 | Active | Mil | 16 Ld FlatPack | N/A | 5962F9563201QXC | Contact Us | Buy |
| HS9-26CT31RH-Q | Active | Mil | 16 Ld FlatPack | N/A | 5962F9563201VXC | Contact Us | Buy |
| HS9-26CT31RH-T | Active | Mil | 16 Ld FlatPack T+R | N/A | 5962R9563201TXC | Contact Us | Buy |

**The price listed is the manufacturer's suggested retail price for quantities between 100 and 999 units. However, prices in today's market are fluid and may change without notice.**
**MSL** = Moisture Sensitivity Level - per IPC/JEDEC J-STD-020
**SMD** = Standard Microcircuit Drawing

**Description**

The Intersil HS-26CT31RH is a quad differential line driver 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-26CT31RH accepts TTL signal levels and converts them to RS-422 compatible outputs. This circuit uses special outputs that enable the drivers to power down without loading down the bus. Enable and disable pins allow several devices to be connected to the same data source and addressed independently.

Specifications for Rad Hard QML devices are controlled by the Defense Supply Center in Columbus (DSCC). The SMD numbers listed here must be used when ordering.

Detailed Electrical Specifications for these devices are contained in SMD 5962-95632. A “hot-link” is provided on our homepage for downloading.
http://www.intersil.com/spacedefense/space.htm

**Key Features**

- Electronically Screened to SMD #5962-95632
- QML Qualified Per MIL-PRF-38535 Requirements
- 1.2 Micron Radiation Hardened CMOS
- Total Dose Up to 300kRAD(Si)
- Latchup Free
- EIA RS-422 Compatible Outputs (Except for IOS)
- TTL Compatible Inputs
- High Impedance Outputs when Disabled or Powered Down
- Low Power Dissipation 2.75mW Standby (Max)
- Single 5V Supply
- Low Output Impedance 10© or Less
- Full -55ºC to +125ºC Military Temperature Range

**Related Documentation**

AN Application Note(s):
- Using the HS-26C31RH, HS-26CT31RH Radiation Hardened RS-422 Line Driver

DS Datasheet(s):
- Radiation Hardened Quad Differential Line Driver
- Radiation Hardened Quad Differential Line Driver

TB Technical Brief(s):
- LET Threshold for SEU of the HS-26C(T)32RH Operating in Failsafe Mode

smd Military SMD(s):
- Radiation Hardened Quad Differential Line Driver

**Parametric Data**

| | |
|---|---|
| RH Level | 300 |

**Related Devices** PT Parametric Table

| | |
|---|---|
| HS-26C31RH | Differential Line Driver, Quad, CMOS Inputs and Enable, 5V, Rad-Hard |
| HS-26CLV31RH | Differential Line Driver, Quad, CMOS Enable, 3.3V, Rad-Hard |