

100-up price
HSDL-3603-007
€ 3.70

HSDL-3603 IrDA® Compliant 4 Mbit/s Infrared Transceiver

from Agilent Technologies

The HSDL-3603 is a low profile infrared transceiver module that provides an interface between logic and IR signals for through-air, serial, half-duplex IR data-links.

It contains a high-speed and high-efficiency 870 nm LED, a silicon PIN diode and an integrated circuit. The IC contains a LED driver and a receiver providing a single output (RXD) for all data rates supported.

The HSDL-3603 can be completely shut down to achieve very low power consumption. In shutdown mode, the PIN diode is inactive and produces very little photocurrent even under very bright ambient light. Such features are ideal for mobile devices that require low power consumption.

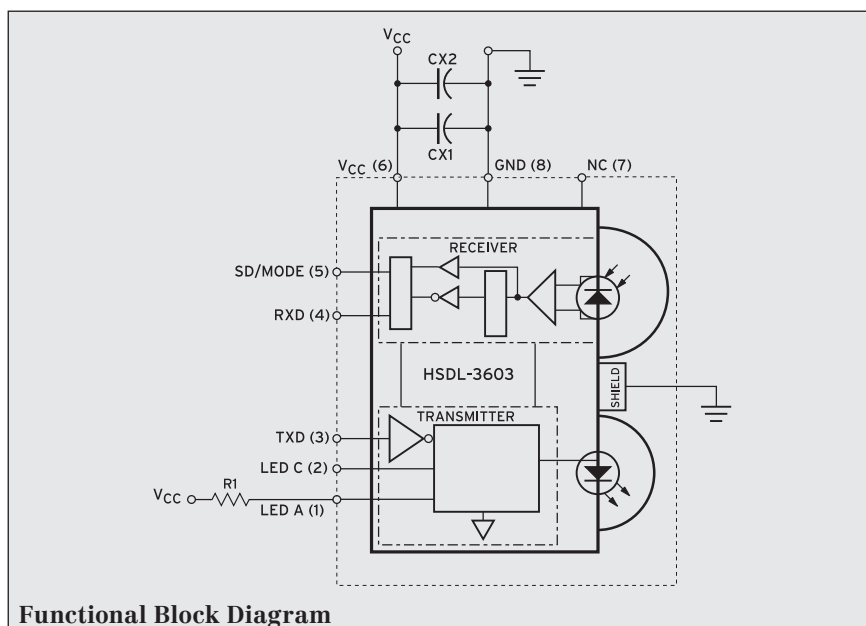
All options come with integrated shield that helps to ensure low EMI emission and high immunity to EMI field, thus enhancing reliable performance. The transceiver is supplied in a small profile package measuring 3.9 x 9.8 x 4.65 mm (height x width x depth).

Features

- Fully compliant to IrDA 1.4 Fast Infrared (FIR) from 9.6 kbit/s to 4 Mbit/s
- Typical link distance > 1.5 meter
- Guaranteed temperature performance: -25...+70 °C
- Critical parameters are guaranteed over temperature and supply voltage
- Low power consumption, low shutdown current (10 nA typ.)
- Complete shutdown of TXD, RXD and PIN diode
- Withstands >100 mV_{P-P} power supply ripple (typ.)
- Integrated EMI shield
- Designed to accommodate light loss with cosmetic windows
- IEC 825-Class 1 eye safe
- Interface to various super I/O and controller devices

Applications

- Digital imaging, digital still cameras, photo-imaging, printers
- Dongles
- Data communication, notebook computers, desktop PCs, PDAs
- Set-top box
- IR LANs
- Telecommunication products, mobile phones, pagers
- General data collection devices



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