

LVDS – 1.25 Gbps LVDS Quad Repeater

UT54LVDS454

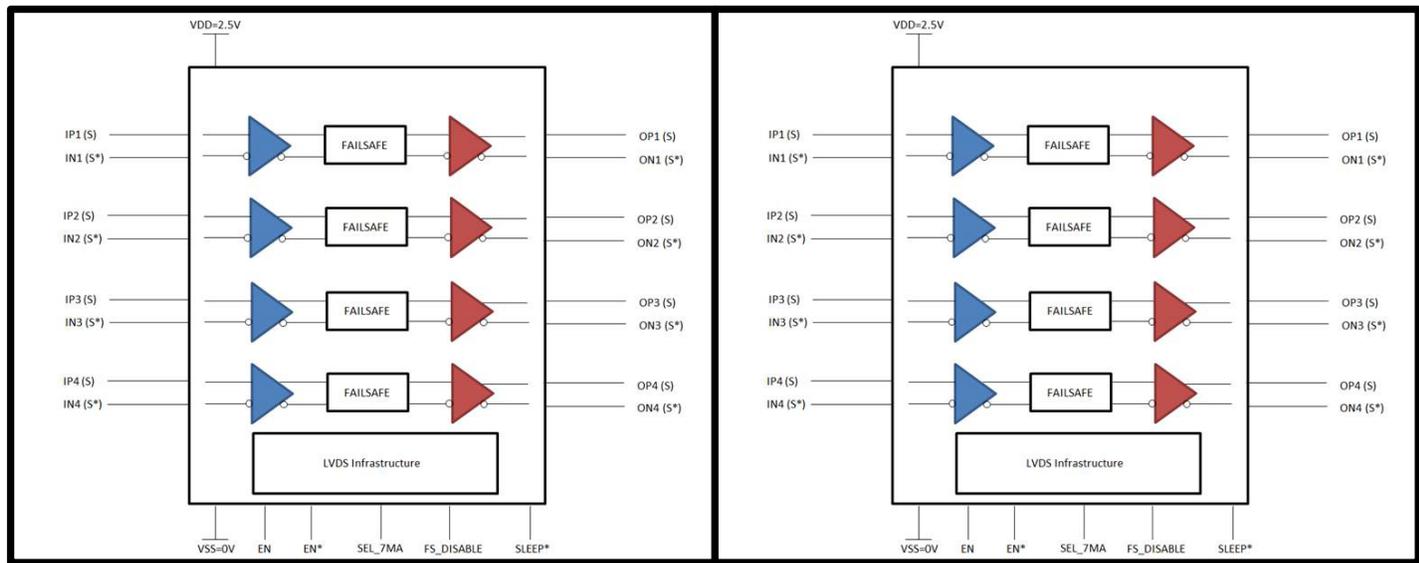


For space applications demanding high speed, high-reliability and harsh environment serial link communications, Cobham Advanced Electronic Solutions UT54LVDS454, 1.25 Gbps LVDS Dual Transceiver/Quad Repeater is designed for high speed and low power.

The small QML package footprint and user-selectable TX drive strengths allow for optimal payload and system power dissipation configurability based on the user-specified serial link data rates. The UT54LVDS454 high-speed LVDS Transceiver/Receiver is ideal for buffer protection of FPGA's and processors as well as box-to-box communication within a satellite.

The all-pins cold-sparing feature coupled with the user-supplied external TX/RX buffer differential 100Ω termination, allows for maximum application flexibility in systems with mission critical serial link full redundancy requirements

Product is available now in prototypes and production QML-Q, QML-V qualifications.



Quad Repeater

Dual Transceiver

LVDS – 1.25 Gbps LVDS Quad Repeater

UT54LVDS454

Features:

- 1.25 Gbps LVDS Dual Transceiver/Quad Repeater
 - Single 2.5 V Power Supply
 - Low Power
 - Protocol Independent
 - Data Rates up to 1.25 Gbps per Channel
 - Cold Sparring on All-pins
 - Low Propagation Delay (Latency)
 - Low Channel-to-Channel Skew
 - Supports up to 1 meter of FR4 PCB or 10 meters of cable up to 1.25Gbps
 - Fail-safe Function for Loss of Signal Detection
 - Compatible with TIA/EIA-644A LVDS Standard
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Applications:

- Serial point-to-point link repeater
 - FPGA I/O buffer protector
 - LVDS Cold Spare applications
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Operational Environment:

- Temp Range: -55°C to +105°C
 - Single 2.5 V Power Supply
 - TID: 100 krad(Si)
 - SEL Immune: < 100 MeVcm²/mg
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Physical:

- Package Options: 71 pin CLGA, CBGA, CCGA
 - 9 x 10mm, 1mm pin pitch
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Power:

- 170mW (typical)
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Qualifications:

- QML-V Qualified
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