

CAN BUS JUSTIFICATION

INFORMATION

- Future proofed component and system developments by the automobile and aerospace industries.
- Reliable due to safety system requirements of auto system air bags, engine control and braking systems.
- Component qualification to 150°C by the auto industry.
- Future high temperature, long life electronic hybrid development by the aerospace industry.
- Automatic shut down of failing systems.
- Cable fault tolerance due to the above.
- Error rates generated by the hardware (without cable) are less than 5×10^{-11} .
- Bit stuffing to give good data synchronisation.
- CAN system loop time for 12 down hole systems with 16 channels of 16 bit data is 1.2 seconds.
- Large number of CAN component vendors supplying qualified parts.