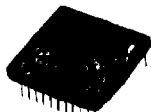


MIL-STD-1553 DATA BUS SINGLE AND DUAL TRANSCEIVERS

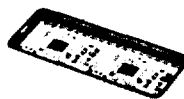
**FULL
 DATA SHEET
 AVAILABLE**



BUS-63102 II



BUS-63105 II



BUS-63125 II

DESCRIPTION

The BUS-63100 II transceivers are complete transmitter and receiver pairs conforming fully to MIL-STD-1553A and 1553B. Features available with selected models of this high reliability series include: Smiths and Harris interface type choices, $\pm 12V/\pm 15V$ power supply voltage range, variable threshold levels, and single (24 pin DDIP or square) and completely independent dual redundant (36 pin DDIP) packaging configurations. All models are also available in flatpacks.

The receiver section of the BUS-63100 II series accepts phase-modulated bipolar data from a MIL-STD-1553 Data Bus and produces TTL signal data at its outputs: RX Data Out and RX $\bar{\text{Data}}$ Out. These outputs represent positive and negative variations of the input data sig-

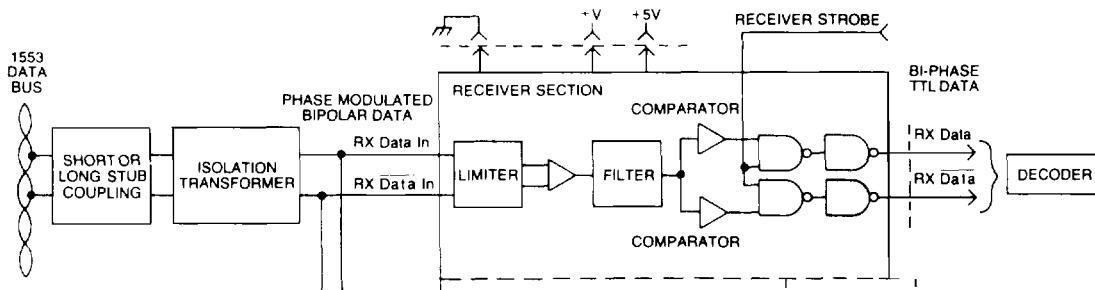
nals beyond an internally fixed or externally set threshold level. An external STROBE input enables or disables the receiver outputs.

The transmitter section accepts bipolar TTL signal data at its TX Data and TX $\bar{\text{Data}}$ input lines and produces phase-modulated bipolar data at the TX Data and TX $\bar{\text{Data}}$ outputs. The transmitters' output voltage level is typically 28Vpp to 30Vpp. An external input, INHIBIT, takes priority over the transmitter inputs and disables the transmitter when activated with a logic "1".

The small size and different model capabilities available with the BUS-63100 II series simplify engineering design, making it an excellent choice for interfacing with any MIL-STD-1553 system.

FEATURES

- *CONFORMS FULLY TO MIL-STD-1553A AND 1553B*
- *SOME MODELS AVAILABLE TO MILITARY (DESC) DRAWINGS*
- *MODEL CAPABILITIES: SINGLE OR DUAL REDUNDANT PACKAGING*
– 12V/– 15V POWER SUPPLY VOLTAGE RANGE AVAILABLE
HARRIS OR SMITHS I/O COMPATIBILITY
- *SMALL SIZE: SINGLE – 24 DDIP OR SQUARE DUAL – 36 DDIP FLATPACKS*
- *LOW POWER*
- *HIGH RELIABILITY – LSI*



ORDERING INFORMATION

SINGLE TRANSCEIVERS

BUS-63105 II-883B

- Reliability Grade:
 - 883B = Fully compliant with MIL-STD-883.
 - B = Screened to MIL-STD-883 but without QCI testing
 - Blank = 0" to 70°C
- Power Supply Voltage Range/Package
 - 5 = -15VDC/DDIP
 - 6 = -15VDC/Flatpack
 - 7 = -12VDC/DDIP
 - 8 = -12VDC/Flatpack
- Enc-Dec Compatibility:
 - 0 = Compatible with Harris Encoder/Decoder
 - 1 = Compatible with Smiths Encoder/Decoder

BUS-63105 II available as Military (DESC) drawing 5962-86049-02ZC.

See figure 2 for mating transformer.

BUS-63102 II-883B

- Reliability Grade:
 - 883B = Fully compliant with MIL-STD-883.
 - B = Screened to MIL-STD-883 but without QCI testing
 - Blank = 0" to 70°C
- 2 = Universal transceiver (MACAIR and 1553) ±12V to ±15V power supply range, compatible with Smiths Encoder/Decoder.
- 4 = 1553, ±12V to ±15V power supply range, compatible with Smiths Encoder/Decoder.
- Packaging:
 - 0 = 24 pin square
 - 1 = 24 pin square flatpack

See figure 2 for mating transformer.

DUAL TRANSCEIVERS

BUS-63125 II-883B

- Reliability Grade: (See note)
 - 883B = Fully compliant with MIL-STD-883.
 - B = Screened to MIL-STD-883 but without QCI testing
 - Blank = 0" to 70°C
- Power Supply Voltage Range/Package
 - 5 = -15VDC/DDIP
 - 6 = -15VDC/Flatpack
 - 7 = -12VDC/DDIP
 - 8 = -12VDC/Flatpack
- Enc-Dec Compatibility:
 - 2 = Compatible with Harris Encoder/Decoder
 - 3 = Compatible with Smiths Encoder/Decoder

BUS-63125 II and BUS-63126 II available as Military (DESC) drawing 5962-87579.

See figure 2 for mating transformer.

Note: Available as BUS-63125 II-641 (BUS-65612 compatible Transceiver)

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