GLE/ASC-573R
ARINC 573 / 717 Compact & Rugged Decoder

Main Features

- ARINC 573 and 717 compliant
- Standalone decoder and RS-232 data converter
- Robust and compact design for onboard operation
- Wide temperature range / Extended voltage DC supply range
- Optional USB 2.0 interface for setup and data transfer
- Supported by GLE/TelemetryStudio software package
- DLL library for custom applications/integration

Description

GLE/ASC-573R is an onboard, compact and rugged standalone unit designed to convert, Harvard Bi-Phase coded, 12 bit, four minorframes, avionic bus (ARINC 573 / 717) to asynchronous serial RS-232. By using a serial terminal emulator it can be prog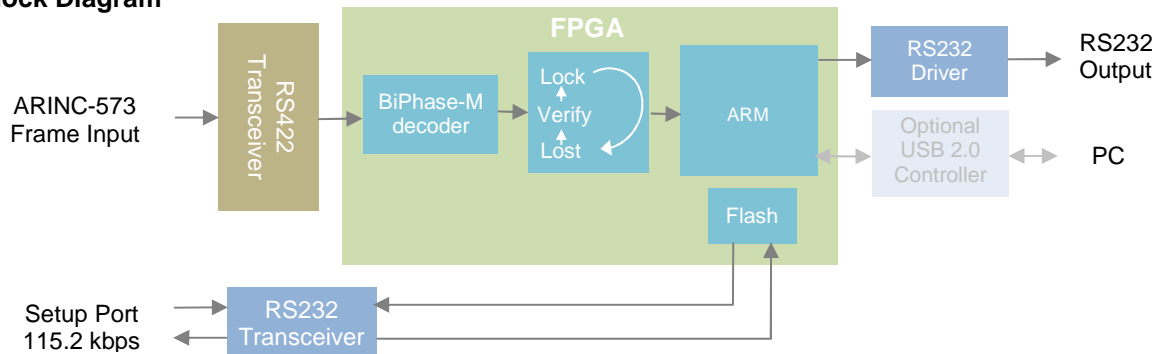rammed to support 64 / 128 / 256 / 512 /1 024 words per second. Each minorframe is divided into eight parts to form eight RS232 serial messages. Each serial message is identified by an unique header, that is different for each minorframe. In this way ARINC 573 / 717 parameters can be easily parsed by a FTI DAU equipped of a RS-232 input serial interface.

Optionally this unit can be provided with a USB 2.0 interface and/or in a portable enclosure that, in combination with GLE/TelemetryStudio software, represents a cost-effective tool for pre-flight and laboratory tests.
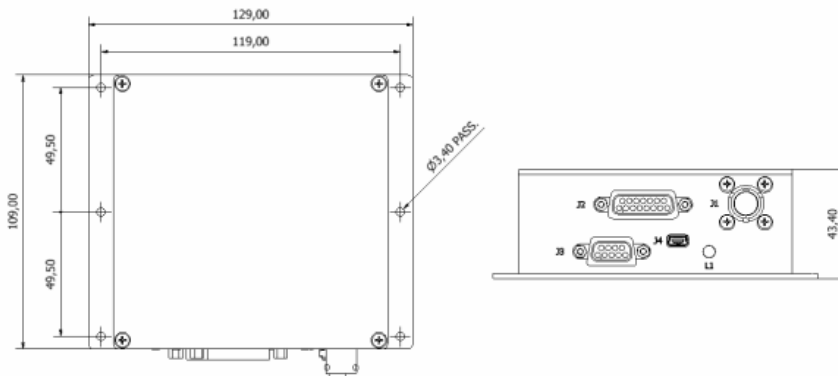
Main Characteristics

Input interface:	RS422 Harvard Bi-Phase; supported bit rates: 768/1536/3072/6144/12288 bps
Input format:	12 bit per word, four minorframes (sync words: 0xE24, 0x1DA, 0xE25, 0x1DB)
Words speed:	64/128/256/512/1024 words per second
Output interface:	RS 232 asynchronous serial interface; supported baud rates: 38400/57600/115200 bps
Output format:	Eight messages for each minorframe (thirty two total messages)
Power supply:	7.5…32VDC 2 Watt max
Enclosure:	EMI/EMC shielded, milled aluminum box, Alodine coated; approx. 500 grams
Shock & Vibration:	Certifiable per MIL-STD 810F
Temperature / Humidity:	Operating: -40 ÷ +85℃ / 0 ÷ 95% RH non-condensing

Block Diagram

Mechanical dimensions

GLE/ASC-573I is the portable version of GLE/ASC-573R. It can be directly powered via a standard USB port.