

Programmable Secondary Output Board



Applications

- Distributed data acquisition systems
- Safety of flight telemetry
- On-board recording
- Real-time data display and analysis

Features

- Plug-in Programmable Secondary Output (PSO) board for the CDAU-2020
- Provides four (4) PSO outputs
 - Programmable subset of CDAU-2020 composite output
 - Independently programmable data content, rate, PCM code, and enable/disable on a format basis
 - Data/zero-phase clock outputs
 - Single-ended (TTL) and differential (RS-422) outputs provided
 - Bit rate up to 10 Mbps or the CDAU-2020 bit rate (whichever is less)
 - Individually enable/disable each output to reduce unwanted noise and/or emanations
- Provides premodulation filtered output
 - Carries data from PSO output #1
 - Amplitude and offset are user-programmable
 - 6 Pole Bessel response filter
 - Automatic filter cutoff frequency based on bit rate
- Provides ten (10) optically coupled outputs
 - Can be used to control transmit frequency of an external transmitter
 - Up to 40mA of sink current each output
- Programmable using TTCWare™ software application

Description

The PSO-204 board provides programmable secondary output capability to the CDAU-2020 product family. The board provides four (4) system PCM data stream outputs for display, analysis, telemetry or archive purposes. Each output can be programmed to contain all composite data or a subset of the composite data content. Outputs operate at programmable rates up to 10 Mbps. Data and clocks are provided in RS-422 (differential TTL) and TTL (single-ended) formats. Channel 1 of the PSO-204 also provides a pre-modulation filter output for transmission. Ten (10) optically-coupled outputs are also available to drive/control external subsystems such as setting the frequency of an external transmitter.

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PSO-404 Datasheet

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Specifications subject to change without notice.

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CAIS
Compatible



Management
System
AS9100C
ISO 9001:2008

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