



IOCCV2 CODE CONVERTER

FEATURES

- Serial synchronous code converter
- Operates from 10 bps to 40 Mbps
- Randomizer / Derandomizer
- TTL I/O with polarity control
- Remote control capability
- Drives daisy chain bus of AL2873 chassis

OVERVIEW

The IOCCV2 Pluggable Interface Module, in conjunction with the AL2873 Configurable Interface Unit, is a code converter for use with serial synchronous PCM streams ranging from 10 bps to 40 Mbps. The physical interface for the signal I/O is a female BNC connector while the electrical interface is 5 volt TTL compatible. The PCM input is synchronized via an external clock while the PCM output provides a synchronized clock.

The IOCCV2 module is capable of receiving an NRZ-L, NRZ-M, NRZ-S, RNRZ, BiQ-L, BiQ-M, BiQ-S signal and converting it to any one of the subject formats per chapter 4 of the IRIG-106 format. This module also provides a randomization / derandomization function per chapter 6 of the IRIG-106 format.

Up to (14) IOCCV2 modules can be housed in a AL2873 chassis allowing for simultaneous conversion of no less than (14) PCM signals. Control of the IOCCV2 module is provided via the front panel control of the AL2873 chassis or via Ethernet remote control. Ethernet control is provided in conjunction with the AL2873 chassis via a 10/100 Mbps; RJ-45 connection.

The IOCCV2 can also drive the Daisy Chain bus of the 2873 chassis enabling the user to create multiple copies of the input data signals. The IOCCV2 requires 1 slot of the 14 available slots in the Model 2873 chassis.

SPECIFICATIONS

GENERAL

- Serial synchronous code converter
- Single Slot Module (3" x 6" x 0.9")
- Model 2873 Pluggable Interface Module
- Up to (14) modules per chassis capability
- Drives daisy chain bus of AL2873 chassis

INPUT

- Serial synchronous TTL Data and Clock
- Input Codes: NRZ-L, NRZ-M, NRZ-S, RNRZ-L, BiQ-L, BiQ-M, BiQ-S
- Rate: 10 bps to 40 Mbps
- Selectable Data and Clock polarity
- Measures Input Clock Rate

OUTPUT

- Serial synchronous TTL Data and Clock
- Output Codes: NRZ-L, NRZ-M, NRZ-S, RNRZ-L, BiQ-L, BiQ-M, and BiQ-S
- Rate: 10 bps to 40 Mbps
- Selectable Data and Clock polarity

REMOTE CONTROL

- Via AL2873 chassis
- 10/100 connectivity
- RJ-45 type connector