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Electronic Systems Engineering

1601 Smart Crate Controller Level Adapter (SCCLA)

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FEATURES

- RS-485 to ECL adapter for SMART CRATE CONTROLLER (SCC) Model 1600
- Auxiliary to primary converter for SMART CRATE CONTROLLER

APPLICATIONS

- Convert the output data of the SMART CRATE CONTROLLER to ECL so that it may be connected to ECL modules such as the LeCroy 1891/92 FASTBUS based buffer.
- Provided CAMAC pull-up resistors and N-line decoding for the SMART CRATE CONTROLLER so that it may be used as a Primary CAMAC Crate Controller.

GENERAL DESCRIPTION

The BiRa model 1601 Smart Crate Controller Level Adapter (SCCLA) is a single-width CAMAC module. It is an optional companion to the Smart Crate Controller (SCC). The SCCLA is required to be used with the SCC only if the SCC is to be used as a primary crate controller; or is to output data in ECLport format, or both. The module basically provides the SCC with three functional blocks: CAMAC control line pull-up resistors which are socket mounted and are installed if the SCCLA is used to support the SCC as a Primary Crate Controller. These pull-ups are removed is the SCC is already connected to a type CCA2 Crate Controller and is therefore performing as an Auxiliary Crate Controller. CAMAC station number (N) decoder and Look-at-me (LAM) receivers which connect to the SCC module through the Auxiliary Controller Bus and allow it to function as a Primary Crate Controller. This connection is not required and thus these functions are format if the SCC is already connected to a type CCA2 Crate Controller and is therefore performing as an Auxiliary Crate Controller. RS-485 to ECL converters. Without the SCCLA, the SCC data is output in RS-485 format which is excellent for relatively long distances at high speeds. This format matches RBUF receiver/buffer modules which reside in VMEbus, model VME 1700 VME BUFFER memory module. With the SCCLA, the SCC data may be converted, if desired, to differential ECL which matches LeCroy model 1891/ 92 receiver/buffer modules which reside in FASTBUS.

OTHER INFORMATION

POWER REQUIREMENTS:	+6 volts @ 600 mA, -6 volts @ 700 mA
ORDERING INFORMATION:	Model 1601 Smart Crate Controller Level Adapter
ACCESSORIES:	Auxiliary Bus Cable

For assistance contact helpdesk@fnal.gov.
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(Address comments about page to ese-pcadmin@fnal.gov)

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