



## 335-2060-500

# Resistive Thermal Device/Digital Programmable Potentiometer Simulator Card

### Features

- In RTD mode, a channel is wired as a simple resistor across the HIGH and WIPER lines
- In DPP mode, a channel is wired as a potentiometer across the HIGH, WIPER, and LOW lines
- Each channel has two programmable resistor banks in series configuration

### Summary

Phillips' Resistance Thermal Device (RTD)/Digital Programmable Potentiometer (DPP) Simulator card is a daughtercard module that plugs into a Phillips ICX carrier card. As such, the RTD/DPP Simulator Card is one of several plug-in modules that change the type and function of the ICX card in order to support different test interfaces.

The RTD/DPP Simulator card has 8 programmable resistors. Each channel can be configured as a resistive simulator, place in a high impedance off state, and the voltage on each line can be monitored. The RTD/DDP Simulator card configuration identifier is 0x08.

### Specifications

#### I/O Control:

Configuration: 8 programmable resistance channels

Individual and independent control per channel

Programmable range 30 Ohms to 2030 Ohms in 1.25 Ohm steps

Voltage range: +/-15V (30V0)

Max continuous current: +/-50mA

Max Peak current: +/-200mA (pulse at 1ms, 10% duty cycle)

Modes per channel: Auto range resistance, manual range resistance, high impedance

I/O ESD Protection: 2kV per Method 3015.7

#### Loopback Inputs:

ADC resolution: 12-bits

Input range: +/-50V

Least Significant Bit: 25mV

#### Environmental:

Operating temperature: 0 to 70 deg C

Storage temperature: -55 to 100 deg C

Relative humidity: 5 to 95% non-condensing

### Ordering Information

#### Hardware

335-2020-500