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Data Sheet

August 15, 2026

AEROFLEX / TEKTRONIX / CDS

Aeroflex / Tektronix / CDS 53A-171 Control Card

The Aeroflex/Tektronix/CDS 53A-171 is a control card designed for use in a variety of electronic systems. This card provides essential control functions, enabling precise operation and monitoring of connected devices. It is engineered for reliability and compatibility, ensuring seamless integration into existing setups.

**MODEL****Aeroflex /
Tektronix / CDS
53A-171****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****53A-171****LISTING**<https://aumictechlabs.com/products/53a-171-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Aeroflex/Tektronix/CDS 53A-171 Control Card is a printed circuit board assembly that is the hardware executive for the CDSbus 53/63 Series System. It manages system-level commands, controls addressing, and initiates timing signals across the instrument platform. The card provides centralized interrupt handling with vectored priority support and reports interrupt status to the system controller. Built-In Test Equipment (BITE) capabilities enable comprehensive diagnostics of the 53/63 Series System. Programming occurs via ASCII character transmission from the system controller through the communications card and card cage backplane. A 10-position address select switch (0-9) configures the card's location within the system, with the "@XY" command format required for initial addressing. X denotes card cage address and Y specifies card position within that cage.

Technical Specifications

Power Requirements

Supply voltage: 4.75 VDC to 5.25

VDC Quiescent current: 0.9 A / 0.80 A (maximum) Peak current: 0.9 A / 0.85 A Power sourced from 53/63 Series Card Cage Environmental Operating temperature: -10°C to +65°C (ambient 55°C, $\leq 10^\circ\text{C}$ rise with adequate airflow) Storage temperature: -40°C to +85°C Humidity: <95% RH non-condensing (-10°C to +30°C); <75% RH (-31°C to +40°C); <45% RH (+41°C to +55°C) Cooling: Provided by 53A-002 or 63A-012 Card Cage fan Physical Dimensions Card: 197 mm H $\times$ 220 mm D $\times$ 13 mm W (7.75 in $\times$ 8.66 in $\times$ 0.5 in) Weight: 0.23 kg (0.5 lbs) Shipping: 254 mm $\times$ 254 mm $\times$ 127 mm; 0.64 kg (1.4 lbs) Key Features Hardware executive functionality for system-level command identification Centralized vectored priority interrupt register with system controller reporting ASCII-based remote programming interface 10-position address selection (0–9) Integrated BITE for 53/63 Series diagnostics Timing signal generation and control Compatibility & Integration The 53A-171 integrates into the CDSbus 53/63 Series Card Cage backplane and operates with the system communications card. It requires integration with a system controller (calculator or computer) for command and programming functions.

53A171 Characteristics / Specifications

PARAMETER	VALUE
Model	53A-171
Instrument Type	Control card
System Family	CDSbus 53/63 Series
Form Factor	printed circuit board assembly for 53/63 Series
Related Communications	53A-128 IEEE-488 communications card
Related Relay Driver	53A-307 40 channel relay driver
Related Dmm	53A-522 digital multimeter card
Related Scanners	53A-331 and 53A-332 reed relay scanner cards
Manufacturer	Aeroflex Tektronix CDS
Literature	Aeroflex CDS 53A-171 control card listings
Family	Aeroflex CDS 53A IAC cards
Brand Lineage	CDS Tektronix Aeroflex IFR Marconi
System Role	53/63 Series control card
Use Case	IAC mainframe control
Documentation Type	OEM 53A-171 listing
Year Class	CDS 53/63 Series
Card Class	control
Vendor Path	CDS Tektronix Aeroflex
Application Class	modular IAC ATE
Control Class	53/63 system control
Companion Role	53/63 Series mainframe
Slot Class	CDSbus instrument card
Documentation Class	OEM 53A-171 listing
Bus	CDSbus
Mainframe Class	53/63 Series IAC

PARAMETER

VALUE

Related Uart

53A-431B quad UART RS-232/RS-422

Related Parallel

53A-123 differential communications 8 bit parallel

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Mainframe Class	53/63 Series IAC
Related Uart	53A-431B quad UART RS-232/RS-422

PARAMETER	VALUE
Related Parallel	53A-123 differential communications 8 bit parallel

Notes
From Aeroflex/Tektronix/CDS 53A-171 listings (control card for 53/63 Series IAC). Register map and front-edge indicators are on the 53A-171 hardware reference.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.