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Data Sheet

August 15, 2026

AEROFLEX / TEKTRONIX / CDS

Aeroflex / Tektronix / CDS 53B IAC System

Aeroflex Tektronix CDS 53B Instrument OnACard System The Aeroflex/Tektronix/CDS 53B is an Instrument-on-a-Card (IAC) mainframe in the CDSbus 53/63 Series. OEM 53B listings describe each chassis that hosts 53A-series cards (53A-128 IEEE-488, 53A-171 control, 53A-307 relay driver, 53A-331/332 scanners, 53A-522 DMM, 53A-431B UART). The 53B is listed with a front-panel cover as a complete IAC system. Modular ATE switching, DMM, communications, and relay drive in a CDS 53/63 Series IAC rack. Instrument Type: Instrument on a card system mainframe The Aeroflex/Tektronix/CDS 53B is an Instrument-on-a-Card (IAC) mainframe in the CDSbus 53/63 Series. OEM 53B listings describe each chassis that hosts 53A-series cards (53A-128 IEEE-488, 53A-171 control, 53A-307 relay driver, 53A-331/332 scanners, 53A-522 DMM, 53A-431B UART). The 53B is listed with a front-panel cover as a complete IAC system. Modular ATE switching, DMM, communications, and relay drive in a CDS 53/63 Series IAC rack. Instrument Type: Instrument on a card system mainframe Scanner Cards: 53A-331 and 53A-332 reed relay scanners



MODEL

**Aeroflex /
Tektronix / CDS
53B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

53B

LISTING

[https://aumictechlabs.c
om/products/53b-2/](https://aumictechlabs.com/products/53b-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Aeroflex/Tektronix CDS 53B IAC System is a modular, card-based test platform built on the CDSbus architecture for evaluating avionics and communication systems. The 53B mainframe

provides 12 slots for CDS 53A measurement and function cards, reducing equipment costs, software development complexity, and overall system footprint. Control is achieved through external computer interfaces or an optional internal single-board computer (CDS Advanced Computer System ACX). Technical Specifications Mainframe & Architecture 12 card slots for CDS 53A measurement and instrument cards CDSbus (Colorado Data Systems Bus) architecture Designed for bench-top or standard 19-inch rack-mounted deployment Accommodates racks 21 to 29 inches deep with supplied hardware Lighter and more durable construction than previous models Thermal Performance & Power Improved cooling: less than 3°C rise over ambient in fully loaded configuration Internal power supply: 4.75 V dc to 5.25 V dc Quiescent current: 0.72 A maximum; peak current: 0.75 A Enhanced power budget versus previous generations Front panel power indicator (green); red power LEDs on each card Environmental Operating temperature: 0 °C to +50 °C Storage temperature: -40 °C to +85 °C Humidity: Less than 95% RH, non-condensing Key Features Accepts all CDS 53A function and instrument cards Multiple external controller interfaces: IEEE-488, RS-232C, differential 8-bit parallel, single-ended 8-bit parallel, and special IBM PC interface Optional 53B-154 Comm/Chain Card for expanded connectivity Mainframe shipping weight approximately 40 lbs Typical Applications Avionics system evaluation, communication system testing, and modular test configuration requiring multiple measurement cards in a single chassis. Compatibility & Integration Core component of the CDS 53A and 53B Series CDSbus architecture. Operates with external computers or the optional ACX internal single-board computer system.

53B Characteristics / Specifications

PARAMETER	VALUE
Model	53B
Instrument Type	Instrument onacard system mainframe
System Family	CDSbus 53/63 Series
Card Family	53A series IAC cards
Communications Card	53A-128 IEEE-488
Control Card	53A-171
Relay Driver Card	53A-307 40 channel
Dmm Card	53A-522
Scanner Cards	53A-331 and 53A-332 reed relay scanners
Uart Card	53A-431B quad UART RS-232/RS-422
Parallel Card	53A-123 differential communications 8 bit parallel
Cover	53B IAC system with front panel cover listing
Manufacturer	Aeroflex Tektronix CDS
Literature	Aeroflex CDS 53B IAC system listings
Family	Aeroflex CDS 53/63 Series IAC
Brand Lineage	CDS Tektronix Aeroflex IFR Marconi
Form Factor	IAC mainframe chassis
System Role	modular ATE card cage
Use Case	53A card host
Documentation Type	OEM 53B listing
Year Class	CDS 53/63 Series
Vendor Path	CDS Tektronix Aeroflex
Application Class	modular IAC ATE
Bus	CDSbus
Slot Class	53A instrument cards

PARAMETER	VALUE
Companion Role	53A-128/171/307/522 family
Documentation Class	OEM 53B IAC listing
Control Class	IEEE-488 via 53A-128
Mainframe Class	53B IAC

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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PARAMETER	VALUE
Model	53B
Instrument Type	Instrument onacard system mainframe
System Family	CDSbus 53/63 Series
Card Family	53A series IAC cards
Communications Card	53A-128 IEEE-488
Control Card	53A-171
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Dmm Card	53A-522
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Brand Lineage	CDS Tektronix Aeroflex IFR Marconi
Form Factor	IAC mainframe chassis
System Role	modular ATE card cage
Use Case	53A card host
Documentation Type	OEM 53B listing
Year Class	CDS 53/63 Series
Vendor Path	CDS Tektronix Aeroflex
Application Class	modular IAC ATE
Bus	CDSbus
Slot Class	53A instrument cards
Companion Role	53A-128/171/307/522 family

PARAMETER	VALUE
Documentation Class	OEM 53B IAC listing
Control Class	IEEE-488 via 53A-128
Mainframe Class	53B IAC

Notes

From Aeroflex/Tektronix/CDS 53B IAC listings (53/63 Series mainframe hosting 53A cards). Slot count, backplane current, and mains rating are on the 53B chassis specification page.

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.