

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

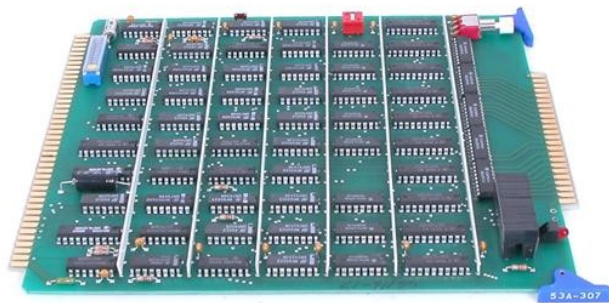
Data Sheet

August 15, 2026

AEROFLEX / TEKTRONIX / CDS

Aeroflex / Tektronix / CDS 53A-307 Relay Driver Card

Aeroflex / Tektronix / CDS Embedded Test Systems. Voltage / Current Range: 0.85 A typical (peak); external relay switching 1 V DC to 50 V DC @ 100 mA per output, 4.75 V DC to 5.25 V DC @ 0.80 A typical (quiescent).



MODEL

**Aeroflex /
Tektronix / CDS
53A-307**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

53A-307

LISTING

<https://aumictechlabs.com/products/53a-307-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Aeroflex / Tektronix / CDS 53A-307 is a relay driver card for the CDSbus 53/63 Series that controls up to 40 independent external relays via ASCII character commands from a system controller. Each output uses Darlington-pair drivers capable of sinking 100 mA and switching external voltages from 1 V DC to 50 V DC. Built-in transient suppression diodes protect all 40 output lines. The card operates from a 5 V DC supply within the 53/63 card cage and draws approximately 0.80 A quiescent current and 0.85 A peak current. Operating temperature range is -10°C to +65°C, with storage rated to -40°C to +85°C. LED diagnostics indicators are provided on the card. Physical dimensions are 197 mm high × 220 mm deep × 13 mm wide. Humidity specifications vary by temperature: <95% RH non-condensing at -10°C to +30°C; <75% RH

non-condensing at +31°C to +40°C; and <45% RH non-condensing at +41°C to +55°C. The card requires cooling from the integrated fan within the 53/63 Series Card Cage and mounts as a printed circuit board assembly within the system.

Features & description

From manufacturer datasheet

Built-in transient suppression diodes

LED diagnostics ASCII random open/close from controller Technical Specifications Model: 53A-307
Instrument Type: Relay driver card System Family: CDSbus 53/63 Series Output Channels: 40
independent external relays Driver Type: Darlington pair Sink Current: up to 100 mA per output External
Voltage: user supplied 1 V DC to 50 V DC Transient Protection: built-in transient suppression diodes on
40 output lines Control: ASCII characters from the system controller randomly open or close relays
Diagnostics: LED indicators on the card Form Factor: printed circuit board assembly for 53/63 Series
Nsn: 5998-01-290-0333 Manufacturer: Aeroflex Tektronix CDS Literature: Aeroflex CDS 53A-307 relay
driver card listings Family: Aeroflex CDS 53A IAC cards Brand Lineage: CDS Tektronix Aeroflex IFR
Marconi System Role: 40 channel relay driver Use Case: external relay control in 53/63 ATE
Documentation Type: OEM 53A-307 listing Year Class: CDS 53/63 Series Card Class: relay driver
Vendor Path: CDS Tektronix Aeroflex Application Class: modular IAC ATE Companion Role: 53/63
Series mainframe Slot Class: CDSbus instrument card Related Control: 53A-171 control card Related
Communications: 53A-128 IEEE-488 Notes

53A307 Characteristics / Specifications

PARAMETER	VALUE
Model	53A-307
Instrument Type	Relay driver card
System Family	CDSbus 53/63 Series
Output Channels	40 independent external relays
Driver Type	Darlington pair
Sink Current	up to 100 mA per output
External Voltage	user supplied 1 V DC to 50 V DC
Transient Protection	built-in transient suppression diodes on 40 output lines
Control	ASCII characters from the system controller randomly open or close relays
Diagnostics	LED indicators on the card
Form Factor	printed circuit board assembly for 53/63 Series
Nsn	5998-01-290-0333
Manufacturer	Aeroflex Tektronix CDS
Literature	Aeroflex CDS 53A-307 relay driver card listings
Family	Aeroflex CDS 53A IAC cards
Brand Lineage	CDS Tektronix Aeroflex IFR Marconi
System Role	40 channel relay driver
Use Case	external relay control in 53/63 ATE
Documentation Type	OEM 53A-307 listing
Year Class	CDS 53/63 Series
Card Class	relay driver
Vendor Path	CDS Tektronix Aeroflex
Application Class	modular IAC ATE
Companion Role	53/63 Series mainframe
Slot Class	CDSbus instrument card

PARAMETER	VALUE
Related Control	53A-171 control card
Related Communications	53A-128 IEEE-488

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	
Specifications	
PARAMETER	VALUE
Model	53A-307
Instrument Type	Relay driver card
System Family	CDSbus 53/63 Series
Output Channels	40 independent external relays
Driver Type	Darlington pair
Sink Current	up to 100 mA per output
External Voltage	user supplied 1 V DC to 50 V DC
Transient Protection	built-in transient suppression diodes on 40 output lines
Control	ASCII characters from the system controller randomly open or close relays
Diagnostics	LED indicators on the card
Form Factor	printed circuit board assembly for 53/63 Series
Nsn	5998-01-290-0333
Manufacturer	Aeroflex Tektronix CDS
Literature	Aeroflex CDS 53A-307 relay driver card listings
Family	Aeroflex CDS 53A IAC cards
Brand Lineage	CDS Tektronix Aeroflex IFR Marconi
System Role	40 channel relay driver
Use Case	external relay control in 53/63 ATE
Documentation Type	OEM 53A-307 listing
Year Class	CDS 53/63 Series
Card Class	relay driver
Vendor Path	CDS Tektronix Aeroflex
Application Class	modular IAC ATE
Companion Role	53/63 Series mainframe
Slot Class	CDSbus instrument card

PARAMETER	VALUE
Related Control	53A-171 control card
Related Communications	53A-128 IEEE-488

Notes

From Aeroflex/Tektronix/CDS 53A-307 listings (40 outputs, 100 mA sink, 1-50 V DC user supply, transient diodes, NSN 5998-01-290-0333). Connector pinout and LED map are on the 53A-307 manual pages.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 15, 2026

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