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Data Sheet

August 13, 2026

AEROFLEX IFR

Aeroflex IFR DT200 Databus Analyzer

Aeroflex IFR DT200 DATATRAC 200 ARINC 429 / CSDB Databus Analyzer The Aeroflex IFR DT200 (DATATRAC 200) is a portable battery operated avionics databus analyzer supporting ARINC 429 and CSDB (Commercial Standard Digital Bus). It provides extensive receive and transmit tools, breakpoint triggering, graphic time plots, record/playback, and 8 bit D/A conversion for lab and ramp troubleshooting of Collins Pro Line and general avionics databus systems. ARINC 429 and CSDB bus monitoring and injection; flight line and bench databus troubleshooting; breakpoint triggered capture with history buffers; recording mode for lab and flight test with graphic playback. The Aeroflex IFR DT200 (DATATRAC 200) is a portable battery operated avionics databus analyzer supporting ARINC 429 and CSDB (Commercial Standard Digital Bus). It provides extensive receive and transmit tools, breakpoint triggering, graphic time plots, record/playback, and 8 bit D/A conversion for lab and ramp troubleshooting of Collins Pro Line and general avionics databus systems. ARINC 429 and CSDB bus monitoring and injection; flight line and bench databus troubleshooting; breakpoint triggered capture with history buffers; recording mode for lab and flight test with graphic playback.



MODEL

**Aeroflex IFR
DT200**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

DT200

LISTING

<https://aumictechlabs.com/products/dt200-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Aeroflex IFR DT200 Databus Analyzer is a portable, battery-operated diagnostic instrument for capturing, analyzing, and simulating ARINC 429 and Commercial Standard Digital Bus (CSDB)

avionics databus traffic. Field and laboratory technicians use the DT200 to validate systems, detect faults, and support integration tasks across dual-mode operation. The instrument displays data in hexadecimal, binary, or engineering units, with onboard functions including freeze, scroll, clear, and graphic time-plot rendering. Recording capacity spans approximately 20 minutes for dual-label configurations at 1 word per second, with playback supporting graphics plots, hex lists, or DC output. Battery runtime extends to 6 hours on internal rechargeable cells, enabling extended field deployment.

Technical Specifications

ARINC 429 Receive: Bus frequency: 12.5 kHz to 100 kHz (selectable) Input voltage: +6.5 VDC to +13.5 VDC (A to B) Input impedance: 12.0 k Ω Maximum labels: 255 per SDI value Breakpoint conditions: EQ, NEQ, OR, GT, LT, /GT/, /LT/ Break history: 85 words per label; 16 labels maximum Record intervals: 10 ms to 5 s (selectable) Record capacity: ~20 minutes (2 labels, 1 word/s)

ARINC 429 Transmit: Bus frequency: 12.5 kHz to 100 kHz (selectable) Output voltage: +3.0 to +5.0 VDC (A to B) Output impedance: 100 Ω Maximum transmit labels: 16 D/A range: +5.0 VDC, 8 bits D/A scaling: 100%, 50%, or 12.5% of digital word Trigger pulse: +5 VDC, 0.5 ms Burst mode: 1–99 outputs at selectable rate

CSDB (Commercial Standard Digital Bus): Bus frequency: 12.5 kHz or 50 kHz (selectable) Output voltage: +3.0 to +5.0 VDC (A to B) Output impedance: 100 Ω High and low-speed receive/transmit supported Data format per Collins Doc. 523-0772774-00411R

General: Display: 1.7" $\times$ 6.0" LCD; 8 lines $\times$ 40 characters or 64 $\times$ 256 dot graphics Power: 7.0 W @ 110 VAC/60 Hz; 8.4 W @ 28 VDC or battery Battery operation: Up to 6 hours Front panel dimming control

Key Features

- Dual-mode operation: ARINC 429 and CSDB
- Multi-format data display: hexadecimal, binary, engineering units
- Graphic time-plot capability for transient analysis
- Flexible record intervals and extended playback options
- Programmable breakpoint triggering with conditional logic

Typical Applications

- Avionics system validation and fault isolation
- Flight test and laboratory data recording
- Databus simulation and protocol verification
- Integration testing of ARINC 429 and CSDB networks

Compatibility & Integration

The DT200 operates with standard avionics ARINC 429 and CSDB interfaces, supporting both receive and transmit modes across specified frequency and voltage ranges.

DT200 Characteristics / Specifications

PARAMETER	VALUE
Model	DT200
Manufacturer	Aeroflex / IFR / ATG Atlantic Instruments
Instrument Type	Avionics Databus Analyzer
Alias	DT200; DATATRAC 200; IFR DT200
Protocols supported	ARINC 429; CSDB
ARINC 429 receive bus frequency	12.5 kHz or 100 kHz selectable
ARINC 429 receive input levels	+6.5 to +13.5 VDCtoBARINC 429 receive impedance: 12.0 kohms
ARINC 429 maximum labels receive	255 per SDI value
ARINC 429 break history	85 words per label, 16 labels
ARINC 429 transmit output level	+10.0 VDCtoBARINC 429 transmit output impedance: 75 ohms
CSDB receive bus frequency	12.5 kHz or 50 kHz selectable
CSDB receive input levels	+2.0 to +6.0 VDCtoBCSDB receive impedance: 8.0 kohms
CSDB word update interval	3 ms to 5 s
CSDB maximum labels	16
CSDB transmit output levels	+3.0 to +5.0 VDCtoBCSDB transmit output impedance: 100 ohms
Record intervals both buses	10 ms to 5 s selectable
D/A output range	+5.0 VDC 8 bits
D/A scaling	100 percent; 50 percent; or 12.5 percent of word to full scale
Trigger pulse	+5 VDC 0.5 ms
Burst mode transmit	1 to 99 bursts at selectable rate
Display	1.7 in x 6.0 in LCD; 8 × 40 char or 64 × 256 dot graphics
Weight	7.5 lb (3.4 kg)
Width	12.5 in (31.75 cm)
Height	5.0 in (12.7 cm)
Depth	11.6 in (29.46 cm)

PARAMETER	VALUE
Power 110 VAC	7.0 W at 60 Hz
Power 28 VDC or battery	8.4 W
Battery runtime	up to 4 to 6 hours rechargeable Notes Specs from IFR/Aeroflex DT200 DATATRAC 200 datasheet. Also marketed as ATG DT-200; confirm firmware, battery health, and CSDB vs ARINC personality on the unit.

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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ARINC 429 receive input levels	+6.5 to +13.5 VDC A to B
ARINC 429 receive impedance	12.0 kohms
ARINC 429 maximum labels receive	255 per SDI value
ARINC 429 break history	85 words per label, 16 labels
ARINC 429 transmit output level	+10.0 VDC A to B
ARINC 429 transmit output impedance	75 ohms
CSDB receive bus frequency	12.5 kHz or 50 kHz selectable
CSDB receive input levels	+2.0 to +6.0 VDC A to B
CSDB receive impedance	8.0 kohms
CSDB word update interval	3 ms to 5 s
CSDB maximum labels	16
CSDB transmit output levels	+3.0 to +5.0 VDC A to B
CSDB transmit output impedance	100 ohms
Record intervals both buses	10 ms to 5 s selectable
D/A output range	+5.0 VDC 8 bits
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ARINC 429 maximum labels receive	255 per SDI value
ARINC 429 break history	85 words per label, 16 labels
ARINC 429 transmit output level	+10.0 VDCtoBARINC 429 transmit output impedance: 75 ohms
CSDB receive bus frequency	12.5 kHz or 50 kHz selectable
CSDB receive input levels	+2.0 to +6.0 VDCtoBCSDB receive impedance: 8.0 kohms
CSDB word update interval	3 ms to 5 s
CSDB maximum labels	16
CSDB transmit output levels	+3.0 to +5.0 VDCtoBCSDB transmit output impedance: 100 ohms
Record intervals both buses	10 ms to 5 s selectable
D/A output range	+5.0 VDC 8 bits
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Notes

Specs from IFR/Aeroflex DT200 DATATRAC 200 datasheet. Also marketed as ATG DT-200; confirm firmware, battery health, and CSDB vs ARINC personality on the unit.

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 ·
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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.