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Find the *Measurement Computing / Data Translation DT2815* at our website: *Click HERE*

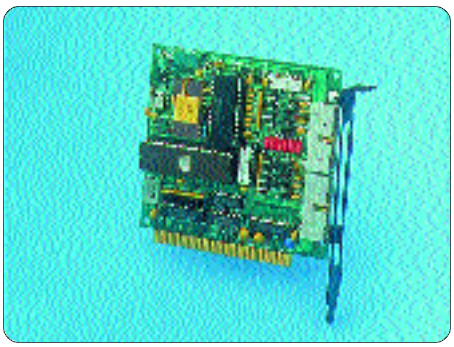
ISA Hardware

DT2815

Analog Output

The DT2815 is a low-cost, half-size analog output board for IBM® PC compatibles. It provides eight 12-bit DACs with throughputs of 3.3 kS/s on a single channel. Voltage or current outputs can be selected.

- Can set each channel independently to use voltage range or current outputs, which do not degrade over distance

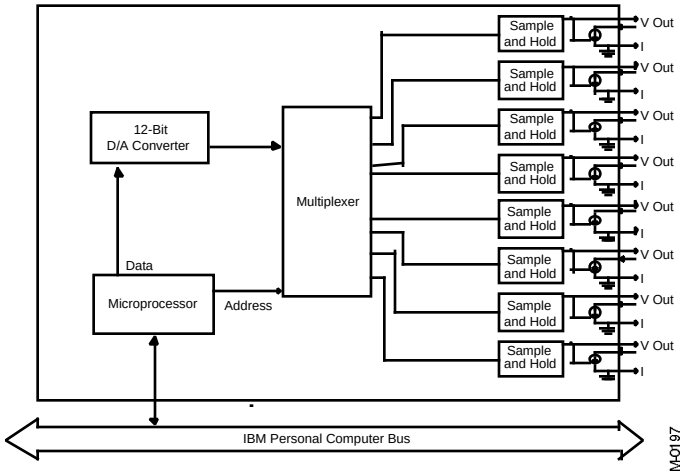


M-4107

Summary

D/A: 8 channels; 12 bits; 3.3 kS/s* (single channel), 425 Hz/channel (all channels operating); voltage or current outputs

*System Dependent



M-0197

Ordering Summary

All Data Translation products are covered by a 1-year warranty. For pricing information, see a current price list, visit our web site, or contact your local reseller.

The DT2815 ships with a DT-Open Layers device driver for Windows 95/98 and a comprehensive user manual.

- DT2815

Accessory for User Connections

- DT757–Screw terminal panel and cable

Software

The following products include a copy of the software, a single-user license, and a user manual. All software is supplied on CD-ROM, except as noted.

- HP VEE with DT VPI visual programming software Version 5.0 for Windows 95/98 SP1950-CD
- HP VEE Lab with DT VPI visual programming software version 5.0 for Windows 98 SP1950-LAB
- TestPoint software for designing test, measurement and D/A applications for Windows 95/98 SPTPXX–CD (see page 32 for details)
- DTx-EZ visual programming tools for Visual Basic and Visual C++ for Windows 95/98 SP0970-CD
- DataAcq SDK Software Development Kit for Windows 95/98 SP0945-CD
- DT-LV Link data acquisition connection to LabVIEW for Windows 95/98, on 3.5 in. 1.4 MB disk SP0810-CL

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Specifications

All specifications are typical at 25° C and rated voltage, unless otherwise specified.

ANALOG OUTPUT

Number of Channels
Eight

Description
Eight outputs multiplexed from a single D/A converter; outputs are driven by sample and hold circuits that are automatically refreshed as required

Resolution
12 bits

Throughput (System Dependent)
3.3 kS/s (one channel);
425 kS/s/channel (all eight channels operating)

Output Ranges
Voltage Out: 0–5, ±5 V @ ±5 mA max
Current Out: 4–20 mA

Settling Time
300 µs

Slew Rate
Voltage Out: .2 V/µs min
Current Out: 1 mA/µs

Error
Voltage Out: ±.025% of FSR
Current Out: ±.05% of FSR

Drift
Zero, ±10 µV/° C
Gain, ±20 ppm of FSR/° C

GENERAL

Interface
ISA Bus or EISA Bus for use with IBM PC compatibles; I/O mapped

Power Requirements
+5 V @ 250 mA typical; +12 V @ 83 mA typical; –12 V @ 95 mA typical
Current Loop: +12 V supply, 250 mA max (using +12 V supply on all eight channels)
Loop Supply Range: 10–40 V with 250 Ω load resistor

Physical /Environmental
Dimensions—half-size PC board 11.4 x 12.5 x 2.5 cm (4.5 in. x 5.0 in. x 1 in.)
Connector—Two 20-pin double row headers

Temperature—operating: 0 to 70° C; storage: –25 to 85° C
Relative Humidity—to 90%, non-condensing

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