



Digital Multi Converter (DMC)

Signal Conversion and Fan-out for Flight and Lab Applications

INVOCON, INC.

1025

Invocon's Digital Multi Converter (DMC) converts incoming received signals (RX) to various outgoing transmit signals (TX), across the following electrical standards: LVDS, RS422, RS232, and TTL/CMOS.

Key DMC Features:

- Supports up to 7 simultaneous inputs and outputs
- Highly configurable for converting amongst multiple electrical standards.
- Configurable to allow receiving signals to be fanned out to different electrical standards or simply be duplicated to extend communication range and improve signal integrity.
- Powered with an external 28 Vdc nominal power source (DMC internally filtered) for Flight Variant, or an external 5 Vdc power source for Lab Variant.
- The Flight Variant DMC weighs 2.39 lbs, and Lab variant DMC weighs 0.76 lbs. The dimensions are 8.320 inches wide x 3.650 inches deep x 1.703 inches high.
- The DMC is recommended be mounted using six (6) 1/4-28 x 2.25 inch long fasteners with washers.

Flight Variant



Lab Variant



Key Interface Specifications

Property	Flight Variant	Lab Variant
Input Voltage	9 – 60 Vdc (EMI filtered)	5 Vdc
Input Current	Typical 40 mA continuous at 28 Vdc	Typical 32 mA continuous at 5 Vdc
Connectors	PT02E-8-4P circular for power (2x) DB-15 for I/O	2.1 mm DC Power Jack (2x) DB-15 for I/O
Size	7.825 x 3.405 x 1.703 inches (not including connectors)	
Weight	Nominal 2.39 lbs	Nominal 0.76 lbs
Case Material	7075 aluminum Alodine coated	ESD-SAFE PLA
Operating Temperature	-24° to +61°C (Acceptance Levels)	Lab Environment

System specifications subject to change without notice.

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Invocon, Inc. • 19221 I-45 South, Ste 530 • Conroe, TX 77385

www.invocon.com • (281) 292-9903