

Data Converter Unit

Extended temperature system

DCU CHASSIS CHARACTERISTICS

Size:

- 3.81 cm (1.50"H) x 17.15 cm
- (6.75" W) x 19.84 cm (7.81" D)

Weight:

- less than 0.9 kg. (2 lbs.)

Power requirements:

- +28 Vdc, ~ 1A. (600 V transient protected)

I/O availability:

- Up to 104 pins

Operating temp range:

- -40°C to +55°C

Cooling:

- Cooled by convection air; no auxiliary cooling required.

The Data Converter Unit (DCU) provides for the translation of avionics data formats, supporting cockpit flexibility needs in upgrade, control, and data recording applications. Flexible interfaces include the conversion between MIL-STD-1553 and ARINC 429, as well as analog and synchro data routing and conversions.

DCU features and input/output

- MC68340 processor
- 1 Mb FLASH memory (16 bits wide)
- 256 Kb SRAM (16 bits wide)
- 16-bit onboard data bus
- 16-bit external data bus
- MIL-STD-1553B (BC/RT/M)
- 1 ARINC 429 input
- 1 ARINC 429/561 input (software selectable)
- 1 ARINC 429 output
- 2 RS-422/RS-232 data buses (software selectable)
- 16 software programmable discrete inputs: 0/G to +28 VDC
- 8 software programmable analog inputs: ± 0.5 Vdc to ± 50 VDC
- 3 synchro inputs

DCU CCA includes a 70-pin stacking connector to accommodate graphics capability or special interface needs. The Operational Flight Program is programmable through the external port, and it can be loaded from a laptop personal computer.



FOR MORE INFORMATION CONTACT:

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