Versatile multi-platform DCU with configurable I/O channels and multiple circuit interface options

The Korry DCU offers a mature design base to grow and meet demanding data concentrator requirements. Platforms where versions of this product are fielded include the Sikorsky S-70, Sikorsky S-92, UH-60M Blackhawk, USAF F-35 and Bombardier C Series aircraft. Reliability is proven with thousands of units fielded and thousands of flight hours.

DCUs collect discrete inputs, analog signals and digital data from sensors and equipment throughout the aircraft then convert them to the required digital format for streaming over the databus (typical formats are ARINC-429, ARINC-825, ARINC-664, Ethernet, MIL-STD-1553, RS-422, RS-485).

Korry DCUs also can be used to drive cockpit displays, activate switch panel relays, host a customer’s real-time operating system (RTOS) and support network infrastructure.

Highly modular and providing many circuit interface options, DCUs by Korry are ideal for customization of complex high-volume, high-connectivity applications. They optimize data collection, signal conversion, processing and routing solutions to deliver the elements needed for rugged, scalable, fault-tolerant data networks.

The final form factor of the Korry DCU is driven by customer requirements detailing the number of I/O pinouts and associated connectors.

Main advantages include reduced cabling and minimal signal interference, improved robustness and survivability, distributed redundancy and the elimination of single points of failure.

Next Generation Korry Data Concentrator Units (DCUs)
Industry-leading signal-conversion and data-concentration technology featuring:
• Proven airborne reliability
• Configurable I/O and databus management
• IMA and FACE compliant
• Modular, compact, low weight, passively cooled
• Self calibration, self testing
Next Generation Korry Data Concentrator Units

**Features**
- Proven interface circuits
- Passive cooling
- Modular design
- Mature design base with thousands of flight hours
- Sensor-specific software modules
- Environmental / EMI/HIRF / lighting tested

**Standards**
- RTCA-DO-160
- RTCA-DO-178 Level A
- RTCA-DO-254 Level A
- MIL-STD-461
- MIL-STD-704
- MIL-STD-810

**Circuit Interface Options**
- Resistive
- Analog
- Synchro
- Frequency
- Discrete input
- Discrete output
- Discrete input or output (bi-directional)
- Multi-wire discrete
- Thermocouple
- Chip detector

- Lamp driver
- Fiber optic
- Solid state relay
- ARINC-429
- ARINC-825 (CAN bus)
- ARINC-664P7
- MIL-STD-1553
- RS-422
- RS-485
- Ethernet