GOEBEL | P2P Flight Control Interface

The Goebel Company has been selected as the supplier for interfaces to Honeywell's flight control bus. Our P2P interface card handles all types of Honeywell's flight control interfaces including Intermodule BUS (IMB), Actuation Data Bus (ADB) interfaces, as well as DMRS interfaces. Programs supported by this flight control interface include Boeing 787, NASA Orion, and COMAC 919. Significant emulation capabilities have been added for C919.

As always, our bus interface modules are integrated with Goebelyzer bus analyzer meaning all bus data is time correlated. ICD import and decodes allow you to see data in engineering units on multiple busses in real time.

Built for Honeywell Flight Control Electronics simulation and test, the P2P resource provides capabilities for monitoring, simulation, error injection and test of FCE P2P busses, also referred to as InterModule Bus (IMB) and Actuation Data Bus (ADB). The P2P resource consists of a processor and IO module on a suitable carrier. The intelligence provided by the processor allows the P2P resource to autonomously monitor or simulate FCE bus traffic. We have IO modules of 32 direct or 20 transformer coupled channels each configurable as to LRU/channel type. By having embedded knowledge of LRU type, the P2P resource performs the same protocol generation and checking as the actual LRUs. When in simulation mode a channel transmits with the same timing and protocols of the actual LRU. LRU emulation of FCM, ACE, REU, and DMRS traffic is supported.

Error injection capabilities of the P2P resource include the generation of packet length errors, CRC errors, loss of post amble and bus frequency modification. In addition bus passthru allows inserting the card between LRUs for modification of data from one LRU to another.

Our companion analyzer product, the Goebelyzer makes use of the P2P resource capabilities. Packet data is displayed in engineering units based on ICD data definitions. The analyzer can be extended with Gtools suite of productivity tools to provide control, scripting, bus mastering and replay of FCE bus traffic.

Ordering Information

Part number	Description
P2PT20-X	20 channels of transformer coupled IMB/ADB on full length PCI-X card. Card is also compatible with PCI 3.3 and 5v slots. Use for C919.
P2P-CB20	20 channel banana jack breakout for P2PT20