GOEBEL | ARINC 664

From the first US supplier of AFDX® interfaces, the GXP1000 extends the capabilities envelope and provides Arinc 664 support including Boeing 787's EDE protocol. Starting with the Airbus A380 program dating back to 2002, a firmware approach utilizing commercial intelligent Ethernet products has proven effective in reaching levels of functionality unattainable with other products. Powerful APIs for data acquisition, data generation and error injection are easily mastered. For maximum capability with minimum effort our Goebelyzer with Gtools productivity products offer unparalleled capability and features. Whether your application requires emulation of multiple end systems, or complex protocol processing and error injection, we have shown the highest performance and the greatest level of functionality. Our products are used in high-level systems simulation, as well as LRU design, verification and manufacturing test. Now featuring our newest addition, 615a data loading.

ARINC 664 (AFDX®) features

- First supplier of ARINC 664 with EDE protocol (required for Boeing 787)
- Embedded PowerPC with Dual 10/100/1000 RJ-45 interfaces
- PCI-X or PMC form factor adaptable to PCI, PCIe, CPCI, PCI, VME, VXI.
- On-board intelligence processes ARINC 664 protocols including redundancy, integrity, EDE management and error detection.
- On-board intelligence handles scheduling, application layer protocols including frame counters, application layer CRC's, and data element function generators.
- 4000 VL's and Ports configured via API
- Error checking flags or discards invalid frames under application control
- Error Injection allows changing frame data including length, checksum and CRC
- Timing of Transmit/receive data to 1.2 nanosecond resolution
- Achieves network loading of 100% on multiple 100 Mbit networks
- Drivers for Windows, IRIX, Linux, VxWorks and HP/UX

Gtools 615a Data Loader

- Supports A665 and A615A file formats.
- Supports ALL ARINC 615A-1/2/3 protocol levels
- GUI or command line loading supported.
- Supports FIND protocol to discover loadable LRUs.
- Supports multiple simultaneous loads.

Gtools - ARINC-664 (AFDX®)

- Decode based on ICD definitions, including TTE, ARINC 429 and 661 decodes
- ICD editing with bus traffic generation based on ICD
- Powerful plotting, triggering, filtering and sorting
- Import NTAR, export CSV, XML, TEXT
- Data pass through modification
- Network latency measurements

- Gtools productivity tools, including data loader, scripting, control panel, FIDO

Part number	Interface description
GXP1000-X	A664/AFDX® PCI-X 3.3v w/drivers, DLL. Control Panel
GXP1000	A664/AFDX® PCI 5/3.3v w/drivers, DLL. Control Panel
GXP1000-E	A664/AFDX® PCIe 3.3v w/drivers, DLL. Control Panel
GXP1000-C	A664/AFDX® cPCI 5/3.3v w/drivers, DLL. Control Panel
GXPE1000-E	A664/AFDX® PCe 3.3v w/drivers, DLL. Control Panel, licensed for EDE Time Manager, NTM and NTA emulation