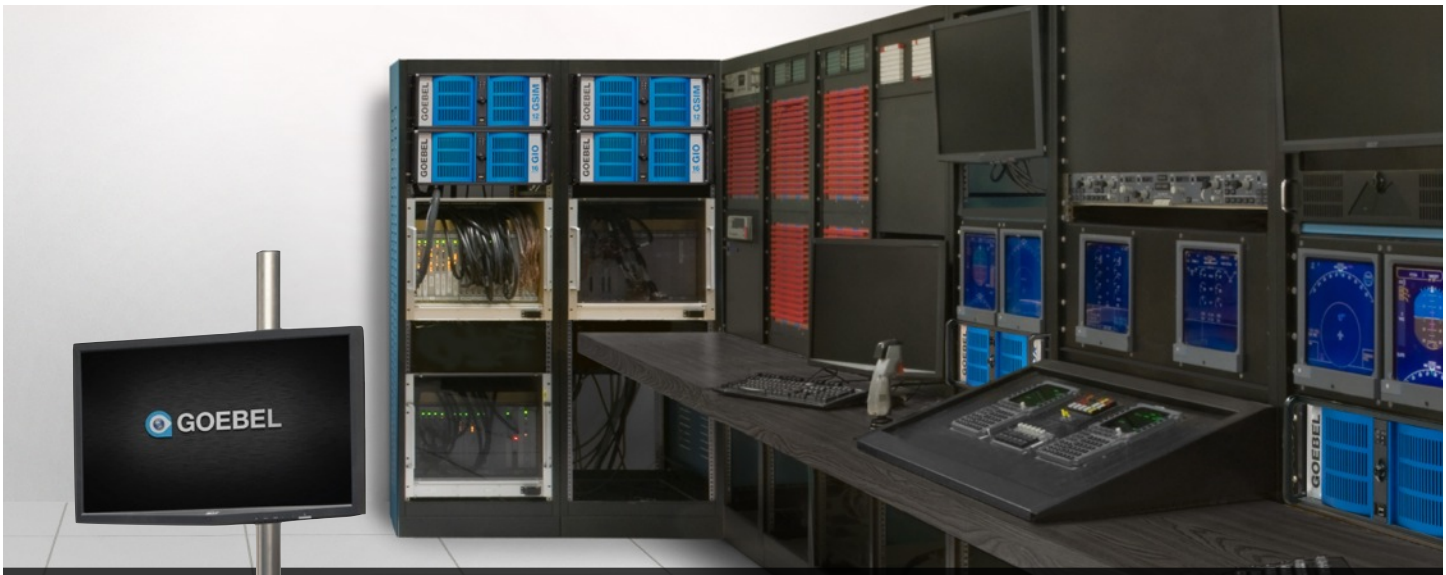
GOEBEL | Goebelyzer with Gtools



The Goebel Company being the first US supplier of A664 test interfaces, has expanded into a breadth of avionics and aerospace interfaces accompanied by a suite of productivity tools. Our Goebelyzer analyzer systems offer unparalleled insight into bus data and are used in flight test, system simulation, LRU design, verification and manufacturing test. Our Gtools suite of productivity products offer industry leading capability along with the quickest learning curve. Our tools are integrated with ICD data definitions for the corresponding programs. We provide interface cards for inclusion in customer test equipment as well as turn key Goebelyzer systems with our extensive Gtools and analyzer capabilities.

Goebelyzer features

- Record multiple interfaces on synchronized time line
- Auto record on power up for flight test
- Powerful plotting, triggering, filtering and sorting
- Import NTAR captures from other vendors
- Export CSV, XML, TEXT.
- Data pass through modification for error injection (Arinc 664, Arinc 429, P2P)
- Powerful capabilities for generation of transmit data, error injection and simulation of end systems
- Arinc 615-a data loading, on A664, A429, ethernet.

Goebelyzer Bus support by program

- Honeywell Primus ® EPIC/APEX: ASCB-D
- Boeing 7X7: Arinc 664, P2P, CAN2.0B, Arinc 429
- Boeing 777 - 777x Arinc 629 (Q3 2015)
- NASA Orion: TTGbe, P2P,

Goebelyzer ICD decodes

Real time display of data in engineering units based on ICD decode. We'll import your ICD in any format. ICD decodes available with authorization for:

- Boeing 787, 777x (Q3 2015)
- COMAC C919
- Gulfstream G650
- All Honeywell Primus ® EPIC/APEX

Gtools

- Control panel of A664 VL and Port parameters
- Scripting language for scenario generation
- mkbus for point and click scenario generation
- Replay of Goebelyzer data captures
- Replay of NTAR captures
- FIDO support for flight debug data on Smiths GPM for 787
- Data Loader support, Arinc 615-A 1/2/3RS422 SDLC/Async, 1553
- Comac C919: A664, P2P

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Goebelyzer

The Goebel Company has developed decoding capabilities for a multitude of avionics interfaces in our Goebelyzer bus analyzer. Data is displayed in engineering units based on ICD definitions. We have ICD import tools from various CSV and XML formats (SKIFF, SLATE, SMART) for multiple programs. Our decode capabilities are advanced to the point where our tools are routinely employed to decode NTAR capture files from other vendors. Once imported, the same capabilities for export to text, CSV, XML, NTAR plots or PCAP formats are provided. Unlike some competing analyzers, data is displayed during capture. In addition, live displays of user specified data items can be generated via simple mouse clicks from ICD definitions.

Goebelyzer Models

Chose from several models of Goebelyzer to suit your needs. Base configuration systems (GLYZR) can be rack mounted or sit on your desktop in a tower configuration. For flexibility, chose the Goebelyzer cart (GLYZR-CT) to roll around the lab and access the busses you want to monitor. For maximum capacity of add in interface cards, chose the Pro version (GLYZR-PRO). A briefcase size model (GLYZR-P17) can go with you to client sites. For flight applications, requiring 28v power and compact rugged design, chose the GLYZR-FT.

GLYZR-GTIU-4
Goebelyzer ruggedized for flight test
Use **with or without laptop. Runs off 28v aircraft power. Handles 4 bus interfaces. Front panel GUI. 11”x3.5”x13.6”**

GLYZR-CT, GLYZR-PRO
Goebelyzer base system on roll around cart
For flexibility, chose the Goebelyzer cart to roll around the lab and access the busses you want to monitor.
For maximum capacity of add in interface cards, chose the Pro version (GLYZR-PRO).

GLYZR-P17
Goebelyzer portable with 17” display
Intel 4771, 16GB 240GB SSD 4 PCI-X and PCIe,

Portable model for easy transport.

9” x 17.5” x 13.5” 32 Lbs

GLYZR-FT
Goebelyzer compact 2u base system
Intel 4771, 16GB 240GB SSD recording disk 3 PCI-X, PCIe, 19”x3.5”x17.8”, 25lbs

GLYZR
Goebelyzer 4u rack mount base system
Intel 4771, 16GB 240GB SSD 4 PCI-X and PCIe, 19”x7”x20.8”, 37lbs

GLYZR-PRO
Goebelyzer 4u rack mount base system
Intel 4771, 16GB 240GB SSD 8 PCI-X, 1 PCIe and 3 PCI slots 19”x7”x20.8”, 37lbs

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Gtools

Our Gtools suite of productivity tools is a customer inspired collection of industry leading capabilities addressing a variety of user requirements. The breadth of capabilities in one low cost all inclusive package is unprecedented.

Gtools – Record
Records data on multiple interfaces with a synchronized time line. Recording is initiated via GUI control, or for flight test can be started automatically on power on.

Gtools – Mkbus
Generation of bus traffic has never been easier than with our Mkbus GUI. A few mouse clicks are all that is needed to define a data set for transmission to our wide array of supported busses. Bus definitions can be imported from ICDs or generated on the fly. Operations such as frame counts, or data functions are easily inserted.

Gtools – Control panel
Our Arinc 664 card can be configured and controlled from an extensive API, or from an A664 control panel. With the control panel, VLs and Ports can be viewed for activity, errors, and bandwidth. A664 control consists of VL and Port stop, start, redundancy, and integrity control for a companion simulation application. This eliminates the requirement for GUI control from the application.

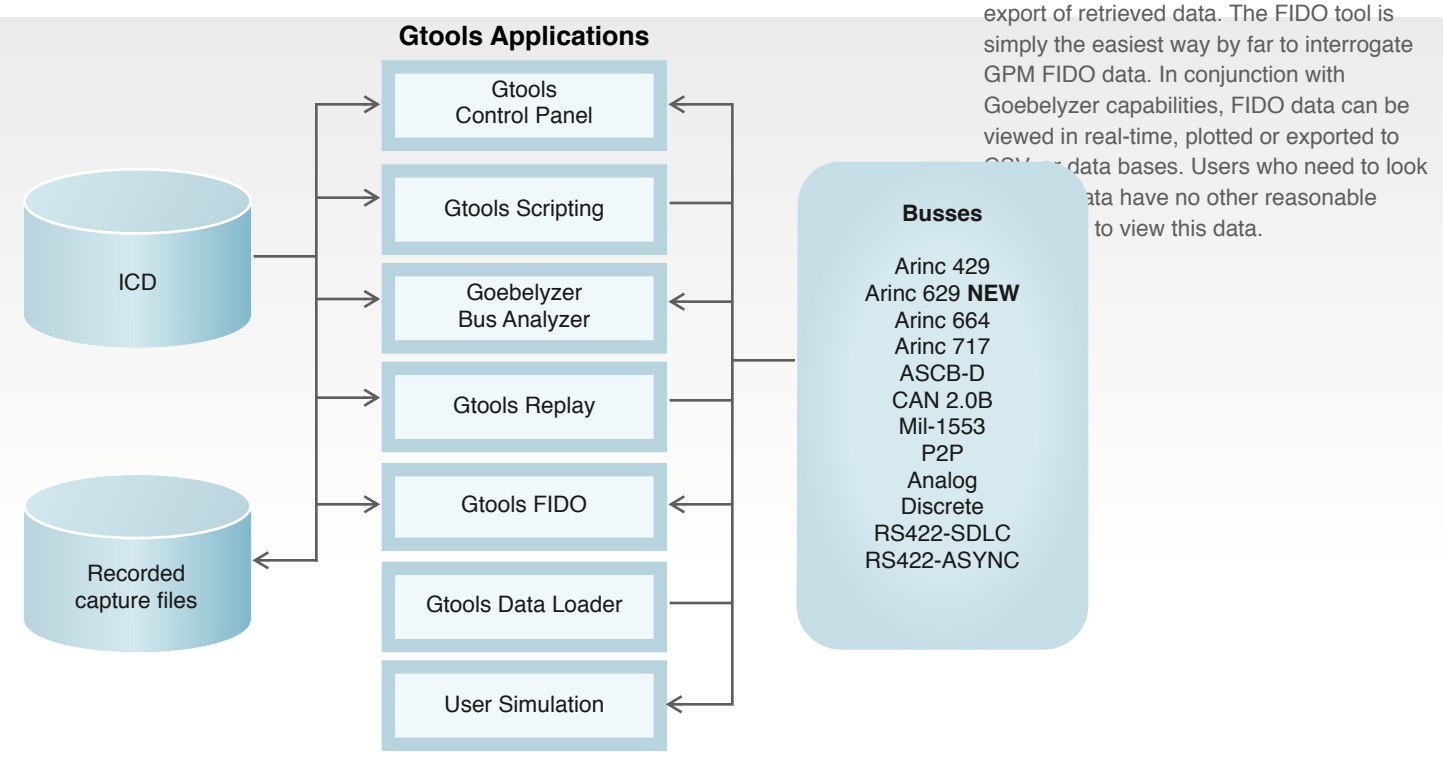
Gtools – Replay
An indispensable tool in the Gtools suite is the ability to replay Goebelyzer captures, or NTAR files for interoperability with other vendors. Replay is an often used method of scenario reproduction for LRU debug.

Gtools – Scripting
One of the most powerful tools in the Gtools productivity suite is the scripting capability. With simple script files, one can generate A664, P2P or Mil 1553 traffic utilizing the advanced data generation and error injection capabilities of the API. Apply a sine wave to a data element or stop a frame counter for one frame, are examples of capabilities accomplished with simple script files. Now we are making these capabilities accessible with a mouse click in our Mkbus tool. No other vendor provides the power of our data generation capabilities in any form, while we provide these capabilities via API, scripting, and now in GUI form.

Gtools - Data Loader
An integral part of the Gtools suite of productivity enhancing tools is the Data Loader supporting Arinc 615-A for Boeing 787 and A664 Programs. There is no longer a need to procure separate tools for simulation, analysis and data loading.

- 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 – FIDO
Flight Information Data Output - FIDO is a mechanism for accessing data inside an end system, in this case the Smiths GPM. Goebelyzers with Arinc A664 interface cards and Gtools package include the FIDO tool. This tool provides for selection of GPM flight and debug data for viewing. Data elements are chosen by simple point and click from variable names listed in the FIDO XML data base. The data elements selected are built into a Goebelyzer script to send the messages required to retrieve the data. Requests are made to the FIDO partition by executing the generated script. Goebelyzer software provides decoding, graphing and export of retrieved data. The FIDO tool is simply the easiest way by far to interrogate GPM FIDO data. In conjunction with Goebelyzer capabilities, FIDO data can be viewed in real-time, plotted or exported to CSV or data bases. Users who need to look at this data have no other reasonable way to view this data.



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Ordering information

Base Units

Part number	Slots	Disk	CPU	Memory	Video	LAN	Chassis	Power	Also
GLYZR	4 PCI-X 1 PCIe	240GB SSD system disk,	Quad Core i7-4771K, 3.5 GHz CPU,	16GB DDR3 1866	Intel HD4600 graphics	2-GB LAN	7” x 19” x 21” 40 Lbs	520W 80+ Platinum < 92% efficient	For cart with display use GLYZR-CT
GLYZR-PRO	6 PCI-X 4 PCI 1 PCIe	240GB SSD system disk,	Quad Core i7-4771K, 3.5 GHz CPU,	16GB DDR3 1866	Intel HD4600 graphics	2-GB LAN	7” x 19” x 21” 40 Lbs	760W 80+ Platinum < 92% efficient	For cart with display use GLYZR-PRO-CT
GLYZR-FT	4 PCI-X 1 PCIe	240GB SSD system disk,	Quad Core i7-4771K, 3.5 GHz CPU,	16GB DDR3 1866	Intel HD4600 graphics	2-GB LAN	3.5” x 19” x 21” 20 Lbs	520W 80+ Platinum < 92% efficient	
GLYZR-GTIU-4	3 PCI-X 1 PCIe	240GB system SSD, 480GB removable SSD	Quad Core i7-4771K, 3.5 GHz CPU,	16GB DDR3 1333	Intel HD4600 graphics	2-GB LAN wireless	3.5” x 11” x 13.6” 13.5 Lbs	28v 200W	User laptop or optional Rugged laptop
GLYZR-P17	4 PCI-X 1 PCIe	240GB SSD system disk,	Quad Core i7-4771K, 3.5 GHz CPU,	16GB DDR3 1866	Intel HD4600 graphics	2-GB LAN	9” x 17.5” x 13.5” 32 Lbs	520W 80+ Platinum < 92% efficient	
CF-53SALZALM	N/A	500GB HD	Intel Core i5 3340M (2.7GHz)	4GB	1366x768	GB LAN Wireless	7 lbs	Universal Power adapter	Rugged laptop for GLYZR-GTIU-4

Bus Interfaces

Part number	Description
GLYZR-GTAX	Goebelyzer A664 GXP-1000 with Gtools software including: FIDO, Scripting, Replay, Control Panel. mkbus
GLYZR-GTAS	Goebelyzer ASCB-D PCI interface, Gtools/ASCB software including: Record, Playback, Control Panel, TIU server
GLYZR-GT422	Goebelyzer 422/485 four channel, Gtools software including: Capture, Scripting.
GLYZR-GT429-8	Goebelyzer Arinc 429 8 configurable rx/tx channels, Scripting, BusMaster, Passthru, breakout (specify box or panel)
GLYZR-GT429-DL	Goebelyzer Arinc 429 data loader upgrade for GLYZR-GT429-8, includes breakout, discrete control, and loader cable
GLYZR-GT629	Goebelyzer Arinc 629
GLYZR-GT717	Goebelyzer Arinc 717, Gtools software including recorder, decoder.
GLYZR-GT1553	Goebelyzer 1553 2-channel with Breakout, and Gtools software including: capture, scripting, replay
GLYZR-GTSW	Goebelyzer SpaceWire 4 channel with cables, Gtools software including: Goebelyzer capture, scripting, replay
GLYZR-GTADC	Goebelyzer Analog to Digital, with Gtools software including: Capture 20 channel 12 bit, Cable and breakout
GLYZR-GTADC32	Goebelyzer Analog to Digital, with Gtools software including: 32 channel 12 bit MHz waveform capture
GLYZR-GTCAN	Goebelyzer CAN2.0B (Arinc 825) 2 channel, with Gtools software including, Capture, scripting
GLYZR-GTDSC	Goebelyzer Discrete, configurable input/output, Cable and breakout
GLYZR-GTDVI	Goebelyzer Digital Video Input (DVI) with Gtools software including, capture and synchronized playback
GLYZR-GTP	Goebelyzer 32 channel P2P (Honeywell Flight Controls) with breakout, Gtools software including: Scripting, Replay
GLYZR-GTP20	Goebelyzer 20 transformer coupled P2P with breakout, Gtools software including: Scripting, Replay

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