

arinc429software

ARINC429 SIMULATION AND DATA ANALYSIS SOFTWARE

When supplied with any of the YED ARINC429 PC cards, this intuitive software package provides the complete solution.

By using the software package you can quickly create and transmit ARINC labels, display labels in real-time and log selected labels to disk for later analysis. The software automatically detects the number of transmitter and receiver channels in the system and configures itself accordingly. The software can control up to a maximum of 8 transmission and 8 reception channels simultaneously.

features

user definable engineering units



- Allows definition of custom Engineering Unit display formats so that data can be viewed and entered in engineering units formats.
- Supported Data conversion formats include: Unsigned Binary, Signed Binary, Two's Compliment Binary, Binary Coded Decimal (*BCD*) and Discrete data (*Flags*).
- Standard Equipment Engineering Unit conversions supplied for immediate use.



real time bus activity

- Displays all ARINC data present on any of the receive channels in Binary and Hexadecimal formats in real time.
- Receive Speed is automatically detected and displayed.

real time monitor - engineering units display

		Control
881	Distance to Co 88888	
	Distance to Go - 249.0000 N.M.	Ex.
882	Time to Go 88888	and the second second second
	Time to Go = 454.9888 Min.	Stop Rx
663	Cross Track Distance 8 8 8 8 8 Cros Trk Dist. = 551,9888 N.M.	
818	Crs Trk Dist. = 551.9880 N.M. Present Pos Latitude ext 0 0 1	and proceedings and
979	Prs. Pos'n Lat = 9739,9808 Deg:Min	the second second
811	Present Pos Long, ext 8 8 8	Freeze
	Prs. Pas'n Long = 259,9800 Deg:Hin	22 J. 2
012	Ground Speed 00001	The survey of the second
813	Ground Speed = 59.0000 Knots Track Apgle True 0 0 Etec448 1	
613	Track Angle True 0 0 E14x448 1 Trk Ang. True = 148.9888 Deg	Rx Status
815	Vind Speed 8888	
01.0	Wind Speed - 12.0000 Mnots	Receiving
821	Selected N1 8888 1	Low Speed
	Selected N1 = 1169,8888 RPM	The second se
827	TACAN Slected Course 0 0 0 0 0 TACAN Sel Crs = 38,0000 Deg	
833	TACAN Sel Crs = 38.0000 Deg ILS Frequency 0.0.0.0	Format
633	ILS Frequency - 63.9188 MHz	C Binary
	ILS Cat. = 8.8888	
		C Hex
		@ Engineering
		Chigheening

- Displays selected ARINC Labels and their associated data words in either Binary, Hexadecimal and Engineering Units format in real time.
- ARINC Labels (TAGS) selected for display by Channel, Label, SDI and SSM.

real time simulation



- Real time update of field data in Engineering units or Hexadecimal formats.
- Other programmable features include variable Inter-Word-gaps (*IWG usually set to 4 bit periods*), programmable intervals including different embedded rates within a major frame for all labels, programmable Parity, SSM and Data rates.
- Single Shot mode is also supported.

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ramping



- Selected transmitted label data can be configured so that the field values are automatically ramped up and down during transmission.
- Ideal for running tests where ARINC429 parameters need to be varied between defined limits in order to simulate "live data".

data acquisition to hard disk and review of recorded data



- Enables data to be captured and saved to disk for later redisplay and analysis.
- Post processing allows additional selection criteria to be applied. Additionally only 'Changing Data' can be specified so that only data that has changed in value since the last occurrence is displayed.

 Powerful search function to enable quick location of specific labels. Search is by Label, SDI and SSM. Searches can also be performed where the point of interest can be specified by the occurrence of a data value. The conditions are 'Less than', 'Greater than or Equal to' a given value.

export to spreadsheet

 Captured data can be exported in a file format compatible with Excel™.





Windows™ 95/98/NT/ 2000/XP compatible

AVAILABLE for use with the following YED PC cards

- PCI-720 (low cost)
- PCI-MAXI/T2/R2 thru PCI-MAXI/T8/R8
- PC/104/T2/R2

Contact us for a free copy of our demo software!

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