

NEW!

A664 FTSIU

ARINC-664 / AFDX Flight Test and Simulator Interface Unit

In Service Sep 2011

- Direct Decoding and Recording of Rockwell Collins AFDX/A664
- Pre-Configured by ICS developed tool that reads Harvest database directly.
- ACRA, L3, and TTC interfaces as well as Ethernet UDP.
- IRIG-B Time Stamping
- Guaranteed -30C to +60C Operating Range



Rugged aircraft powered version

The A664 FTSIU was developed specifically to interface between Rockwell-Collins® implementation of AFDX/ARINC 664 and Airborne Data Acquisition Systems and ground based Simulator units. Currently supported Data Acquisition systems are ACRA KAM-500, Teletronics TTC, and L3 systems. The A664 FTSIU uses the same parallel interface to these data acquisition systems as our Honeywell® ACSB-D interfaces which have been available for 12 years.



Rugged 2U Rack Mounted version

- Gigabit Input support multiple 100Mb/s input busses
- Records and time stamps all data received.
- Converts a selected set of parameters (NDOs) or portions of NDOs to engineering units.
- Number of converted parameters up to 8191 when using ACRA, L3, TTC interface. More when using only Ethernet UDP interface.
- Supports post flight playback of any parameter recorded regardless of whether the parameter was being converted during flight. (all parameters recorded)
- Boots up Converting and/or Recording depending on BOOT time system.cfg file.
- Can have keyboard, mouse, and display or be operated headless.
- Remote Operation and Administration through TELNET interface.
- File Upload / Download through FTP interface of USB Drives
- Supports 1000BaseT, 100BaseT and 10BaseT Ethernet
- Built In IRIG-B time decoder for time synchronization. (free runs in absence if time code)



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AFDX TIS Configuration Tool V1.0.0.0 Oct 24 2011 18:56:14 Copyright Innovative Control Systems, Inc. 2011

File Configure About

Load Database NEW MAP SAVE MAP FILE GENERATE CFG

Currently Open MAP File
 C:\Users\kvjacob\Desktop\TISMAP.map

CHAN	NDO	NAME	TYPE	SRC	RATE
0	227632	C1.AFD.AFD_DATA 227632 FMS_Vspeed_Overspeed_Increment 0.3	Binary	64	10.00
1	227632	C1.AFD.AFD_DATA 227632 FMS_Vspeed_Overspeed_Increment 0.3	Enum	64	10.00
2	227632	C1.AFD.AFD_DATA 227632 FMS_Vspeed_Overspeed_Increment 0.3	ENUM	64	10.00
3	231696	C1.CPF.CPF_DATA 231696 Outside Air Temperature 32, 64, 96 IDL-N	Float-32	64	5.00
4	232976	C1.FGFP.FDF_Data 232976 Database Manager (DBM) 32, 64, 96 IDL-	String-192	64	0.20
5		multi-word — expansion of IDL-NDO at Channel 4			
6		multi-word — expansion of IDL-NDO at Channel 4			
7		multi-word — expansion of IDL-NDO at Channel 4			
8		multi-word — expansion of IDL-NDO at Channel 4			
9		multi-word — expansion of IDL-NDO at Channel 4			
10	232976	C1.FGFP.FDF_Data 232976 Database Manager (DBM) 32, 64, 96 IDL-	Enum-8	64	0.20
11	232976	C1.FGFP.FDF_Data 232976 Database Manager (DBM) 32, 64, 96 IDL-	String-64	96	0.20
12		multi-word — expansion of IDL-NDO at Channel 11			
13	231696	C1.CPF.CPF_DATA 231696 Outside Air Temperature 32, 64, 96 IDL-N	Enum-8	96	5.00
14	232984	C1.FGFP.FDF_Data 232984 To Map Ref 1 Position 32, 64, 96 IDL-NDO	Float-32	64	5.00
15	232984	C1.FGFP.FDF_Data 232984 To Map Ref 1 Position 32, 64, 96 IDL-NDO	Enum-8	64	5.00
16	262960	C1.FGFP.FDF_Data 262960 PFD-MFD Display Modes 32, 64, 96 IDL-N	Enum-8	64	10.00
17	232976	C1.FGFP.FDF_Data 232976 Database Manager (DBM) 32, 64, 96 IDL-	String-3072	96	0.20
18		multi-word — expansion of IDL-NDO at Channel 17			
19		multi-word — expansion of IDL-NDO at Channel 17			
20	262960	C1.FGFP.FDF_Data 262960 PFD-MFD Display Modes 32, 64, 96 IDL-N	Enum-8	96	10.00
21	262960	C1.FGFP.FDF_Data 262960 PFD-MFD Display Modes 32, 64, 96 IDL-N	Enum-8	96	10.00
22	9369864	C1.AFD.AFD_DATA 9369864 Selected_Heading_Track 0, 32, 64, 96 A	Boolean	64	5.00
23	232976	C1.FGFP.FDF_Data 232976 Database Manager (DBM) 32, 64, 96 IDL-	String-104	96	0.20
24		multi-word — expansion of IDL-NDO at Channel 23			
25		multi-word — expansion of IDL-NDO at Channel 23			
26					
27					
28					
29					

Windows XP, Vista, Windows 7 based configuration file tool reads data directly from Harvest database and allows user to select which ARINC NDO or which part of an IDL NDO the user wants to decode and output to the connected Data Acquisition or Simulation equipment. Even individual fields of ARINC NDOs may be selected for output causing the individual bits of the selected field to be masked off and shifted to the LS bits of the output word for ease of use in data acquisition equipment.



For inquiries please contact:



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