

Kahuna Serial Protocol driver

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Introduction

The Kahuna production switcher is available as a 2,3 or 4 M/E system. It can be programmed to output Serial Protocol messages from an RS422 port. This driver presents this information and derived tallies to infodriver slots.

Operation

The driver is run with a command line parameter which is the InfoDriver number it will use to communicate with BNCS. If the ID is not running the driver will terminate with a warning message. If the ID is running, the driver will connect to it and read various configuration values from its DEV_nnn.ini file. If the parameters do not exist (e.g. running for first time) they will be added to the ini file using default values supplied by the driver. (Edit the ini file and run the driver again if default values aren't suitable). The driver will then attempt to open the COM port using the ini file values.

Slot Usage

<u>No.</u>	<u>Use</u>	<u>Notes</u>
1 - 128	Tallies 1 - 128	'0' / '1' = off / on
201 - 344	M/E 1	
201	Key 1 fill sce	
202	Key 1 cut sce	
203	Key 2 fill sce	
204	Key 2 cut sce	
205	Key 3 fill sce	
206	Key 3 cut sce	
207	Key 4 fill sce	
208	Key 4 cut sce	
209	Background A sce	
210	Background B sce	
211	Utility 1 sce	
212	Utility 2 sce	
213	Utility 3 sce	If S&W extensions on

214	Utility 4 sce	If S&W extensions on
221 - 228	busses in use	
221	Key 1 fill bus in use	
222	Key 1 cut bus in use	
223	Key 2 fill bus in use	
224	Key 2 cut bus in use	
225	Key 3 fill bus in use	
226	Key 3 cut bus in use	
227	Key 4 fill bus in use	
228	Key 4 cut bus in use	
229 - 236	contributions to output 1	
229	Background A contributing to output 1	
230	Background B contributing to output 1	
231	Utility 1 contributing to output 1	
232	Utility 2 contributing to output 1	
233	Key 1 contributing to output 1	
234	Key 2 contributing to output 1	
235	Key 3 contributing to output 1	
236	Key 4 contributing to output 1	
237 - 244	contributions to output 2	as output 1
245 - 252	contributions to output 3	
253 - 260	contributions to output 4	
261 - 268	contributions to LAP 1	
269 - 276	contributions to LAP 2	
277 - 284	contributions to LAP 3	
285 - 292	contributions to LAP 4	
293 - 300	contributions to PVW A	always set to 0
301 - 308	contributions to PVW 2	always set to 0
309	Utility 3 contributing to output 1	If S&W extensions on
300	Utility 4 contributing to output 1	If S&W extensions on
311	Utility 3 contributing to output 2	If S&W extensions on
312	Utility 4 contributing to output 2	If S&W extensions on
313	Utility 3 contributing to output 3	If S&W extensions on
314	Utility 4 contributing to output 3	If S&W extensions on
315	Utility 3 contributing to output 4	If S&W extensions on
316	Utility 4 contributing to output 4	If S&W extensions on
317	Utility 3 contributing to LAP 1	If S&W extensions on
318	Utility 4 contributing to LAP 1	If S&W extensions on
319	Utility 3 contributing to LAP 2	If S&W extensions on
320	Utility 4 contributing to LAP 2	If S&W extensions on
321	Utility 3 contributing to LAP 3	If S&W extensions on

322	Utility 4 contributing to LAP 3	If S&W extensions on
323	Utility 3 contributing to LAP 4	If S&W extensions on
324	Utility 4 contributing to LAP 4	If S&W extensions on
331 - 338	scs to outputs	
331	sce to output 1	M/E
332	sce to output 2	M/E
333	sce to output 3	M/E
334	sce to output 4	M/E
335	sce to output 5	Aux bus
336	sce to output 6	Aux bus
337	sce to output 7	Aux bus
338	sce to output 8	Aux bus
341 - 344	outputs on air	
341	output 1 on air	
342	output 2 on air	
343	output 3 on air	
344	output 4 on air	
401 - 544	M/E 2	
601 - 744	M/E 3	
801 - 944	M/E 4	
951 - 959	Store	
951	Input 1 sce	
952	Input 2 sce	
953	Input 1 record	0/1
954	Input 2 record	0/1
955	Input mode	'0' = video/video, '1' = video/key
956	Output 1/2 mode	'0' = video/video, '1' = video/key
957	Output 3/4 mode	'0' = video/video, '1' = video/key
958	Output 5/6 mode	'0' = video/video, '1' = video/key
959	Output 7/8 mode	'0' = video/video, '1' = video/key
961 - 976	Store 1 - 16 coupling	If S&W extensions on
1001 - 1072	DVE 1	
1001	Output 1 re-entrant sce number	
1002	Output 2 re-entrant sce number	
1003	Output 3 re-entrant sce number	
1004	Output 4 re-entrant sce number	
1005	Output 5 re-entrant sce number	
1006	Output 6 re-entrant sce number	
1007	Input 1A sce	
1008	Input 1B sce	

1009	Input 2A sce	
1000	Input 2B sce	
1011	Input 3A sce	
1012	Input 3B sce	
1013	Input 4A sce	
1014	Input 4B sce	
1021 – 1028	contributions to output 1	
1021	Input 1A contributing to output 1	
1022	Input 1B contributing to output 1	
1023	Input 2A contributing to output 1	
1024	Input 2B contributing to output 1	
1025	Input 3A contributing to output 1	
1026	Input 3B contributing to output 1	
1027	Input 4A contributing to output 1	
1028	Input 4B contributing to output 1	
1029 - 1036	contributions to output 2	
1037 - 1044	contributions to output 3	
1045 - 1052	contributions to output 4	
1053 - 1060	contributions to output 5	
1061 - 1068	contributions to output 6	
1069	Input 1B mode	'0' = video, '1' = key
1070	Input 2B mode	'0' = video, '1' = key
1071	Input 3B mode	'0' = video, '1' = key
1072	Input 4B mode	'0' = video, '1' = key
1101 – 1172	DVE 2	
1201 - 1328	Sce name 1 - 128	
4091	COM link status	'1' = OK
4094	Driver check – anything written here reverts from slot 4095	

Configuration

The driver is a 32-bit external InfoDriver (ID) type and hooks in to a running ID when started. If the ID closes the driver will also, and will need to be restarted. The ini file of the associated ID will contain a section for this driver, as below. If this section or any of its parts does not exist when the driver runs it will be created with default values.

[Kahuna]

DebugMode=1

LogMode=0

LogPath=c:\bnclslogs\Kahuna_nnn.log Default for system; edit for different location

Port=1

Speed=38400

DataBits=8

StopBits=1

Parity=N

Extensions=0 0=off, 1 =on

TXoutput= 1-16; 1=M/E1 o/p1, 4=M/E1 o/p4, 13=M/E4 o/p1 etc; default=0
0=use on-air from Kahuna configuration

Notes

1. COM port defaults are the same as Kahuna defaults.
2. Extensions – this is set up for Kahuna; make this setting match.
3. This driver should also be suitable for a Kalypso series mixer.
4. TXoutput determines what derives tallies. Normally use 0 and driver will follow Kahuna setup.

Version Info

- 1.01a June 2009 first release
- 1.1 July 2009 development debug version
- 1.2 July 2009 first release version
- 1.3 July 2011 system version dependant config & log path, app title bar and coloured ID status

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