

ARINC 429 REQUEST FORM  
Revision 09/27/2011

Use this form to propose changes to ARINC 429 Part 1 and Part 2. A complete bit-oriented description should be included with your proposal.

The completed form should be submitted to:

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Industry Activities staff  
Aeronautical Radio, Inc.  
2551 Riva Road  
Annapolis, Maryland 21401

Facsimile: (410) 266-2047  
E-mail: jgodoy@arinc.com

Name: **John Doe** E-mail: **john.doe@anycompany.com**  
Company: Phone: **xxx-xxx-xxxx**  
Date Requested: **Today's Date** Fax: **xxx-xxxx-xxxx**

Equipment Type: **High Power Amplifier**  
Equipment ID (Hex): **241**  Proposed X Already Assigned

Label (Octal) Requested: **143**  
Label Type: X BNR  BCD  DIS  SAL  
Parameter Name: **HPA Status Word**

Units: **N/A** Range (scale): **N/A**  
Significant Bits: Positive Sense: **N/A**  
Min Trans Interval (msec): Resolution: **N/A**  
Max Trans Interval (msec): Max Trans Delay (msec): **N/A**  
Notes:

On the next page is a Blank ARINC 429 bit definition form. Please complete the form when requesting a label assignment.

Examples of completed ARINC 429 Request forms are available on the ARINC Website in either Acrobat (pdf) or MSWord Format. If you have any question in completing a ARINC 429 request form please contact José Godoy.

Please complete the ARINC 429 bit definition for Discrete, Binary, and BCD words.

**Data Type: Label 143 HPA Status Word (BNR)**

32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
P	SSM	ACT. P OUT						MAX AVAIL. RMS POWER						A P O S	H P A	C	HPA BACKOFF RANGE						R S V D	SDI	Octal Label						
																										3 4 1					
																										1 1 0 0 0 1 1 0					

SIGN/STATUS MATRIX		
BITS	CODING	
31 30		
0 0	Failure Warning	
0 1	No Computed Data	
1 0	Functional Test	
1 1	Normal Operation	

ACTUAL POWER OUT		
Type I Class C Bits 29-25	Type II Linear Bits 29-24	MEANING
	011111	16.5 dB Less Than 40W
01111	011110	17.0 dB Less Than 40W
00101	001010	27.0 dB Less Than 40W
	001001	27.5 dB Less Than 40W
00100	001000	At/Below Measurable Range
	000111	Illegal Not Used
00011	000110	3 dB Greater Than 40W
	000010	1.0 dB Greater Than 40W
	000001	0.5 dB Greater Than 40W
00000	000000	40 Watts
	111111	0.5 dB Less Than 40W
11111	111110	1.0 dB Less Than 40W
10001	100010	15.0 dB Less Than 40W
	100001	15.5 dB Less Than 40W
10000	100000	16.0 dB Less Than 40W

MAX AVAIL RMS POWER (LINEAR HPA)	
Bits 23-19	Meaning
00110	3 dB Greater Than 40W
00001	0.5 dB Greater Than 40W
00000	40 Watts
11111	0.5 dB Less Than 40W
11110	1.0 dB Greater Than 40W
-	
-	
-	
10000	8.0 dB Greater Than 40W

ACT. POWER OUT STATUS (APOS)	
Bit 18	Meaning
0	Actual Heading
1	Held Power

HPA BACKOFF RANGE	
Bits 15-12	Meaning
0000	16 dB Backoff
0001	17 dB Backoff
0010	18 dB Backoff
0011	19 dB Backoff
ETC	
1110	30 dB Backoff
1111	31 dB Backoff

HPA TYPE	
Bit 17	Meaning
0	Class C
1	Linear

HPA CONTROL	
Bit 16	Meaning
0	Carrier (s) Off
1	Carrier (s) on

SDI CODE	
Bits 10-9	Coding
00	Reserved
01	LGA HPA
10	HGA HPA
11	Unused