FLEXRADIO CAT COMMAND DICTIONARY

GENERAL INFORMATION

A CAT command consists of a prefix, a parameter list, and a terminator. Commands fall into one of three categories: Get (read) commands that request status information from the transceiver; Set (write) commands that change transceiver status; and Answer (response) commands that return information requested in a Get command or error codes. A correctly executed Set command does not return an Answer command.

The terminator for all CAT commands is the semicolon (;). CAT commands are not case sensitive. Get and Set commands must contain the correct number of parameter characters as shown in the accompanying tables. Most Get commands are simply the prefix followed by a termination, but there are special cases where a Get command will require parameters.

Kenwood Compatible Commands

AG Sets	or reac	ds the A	F Gain	thumby	wheel co	ntrol					
Get	AG	P1	;								
Set	AG	P1	P2	P2	P2	;					
Answer	AG	P1	P2	P2	P2	;					
Notes	P1 = 0	for mai	n transc	eiver, 1	for futur	e sub re	ceiver.	P2 = 000	0 to 255		
	(scaled 0 to 100 in software). An Set value of 127 = 50 on the AF Gain										
thumbwheel. Also see ZZAG.											

AI Sets of	or reads	the Au	to Infor	mation	function	n					
Get	AI	;									
Set	AI	P1	;								
Answer	AI	P1	:								
Notes	P1 = 0	for Off,	1 or mo	ore for C	n. Whe	n On, th	e radio	will bro	adcast th	ne	
	VFO (VFO (A or B) frequency when changed. Option checkbox on the Setup/CAT									
	tab mu	st be ch	ecked to	allow t	his com	mand.					

BD Mov	es the t	ranscei	ver dow	n one b	and					
Get										
Set	BD	;								
Answer										
Notes	BD is write-only									

BU Mov	es the t	ransceiv	ver up o	ne ban	d					
Get										
Set	BU	;								
Answer										
Notes	BU is	BU is write-only								

DN Mov	es VFO	A down	ı by the	increm	ent set i	n step s	ize			
Get										
Set	DN	;								
Answer										
Notes	Notes DN is write-only									

FA Sets	or read	s VFO	A frequ	ency							
Get	FA	;									
Set	FA	P1	P1	P1	P1	P1	P1	P1	P1	P1	
		P1	P1	;							
Answer	FA	P1	P1	P1	P1	P1	P1	P1	P1	P1	
		P1	P1	;							
Notes	P1 = f1	P1 = frequency in Hz (11 digits). Blank digits must be 0. Example:									
	14,320	14,320.150 = 00014320150.									

FB Sets	or reads	VFO I	3 freque	ncy						
Get	FB	;								
Set	FB	P1	P1	P1	P1	P1	P1	P1	P1	P1
		P1	P1	;						
Answer	FB	P1	P1	P1	P1	P1	P1	P1	P1	P1
		P1	P1	;						
Notes	P1 = fr	P1 = frequency in Hz (11 digits). Blank digits must be 0. Example:								
	14,320	14,320.150 = 00014320150.								

FR Sets	or read	s the tr	ansceive	er receiv	ve VFO					
Get	FR	;								
Set	FR	P1	;							
Answer	FR	P1	;							
Notes			d-party of		oility. P	$1 = 0 \sin$	nce the I	FlexRad	io VFO	A is

FT Sets	or read	ls the tr	ansceive	er trans	mit VF0	O		
Get	FT	;						
Set	FT	P1	;					
Answer	FT	P1	;					
Notes	P1 = 0	for VF	O A, 1 fo	or VFO	B.			

FW Set	s or rea	ds the D	SP rece	eive filte	er width	(obsole	te 4/4/2	007, not	t active)	
Get	FW	;								
Set	FW	P1	P1	P1	P1	;				
Answer	FW	P1	P1	P1	P1	;				
Notes	Notes FW only accepts FlexRadio filter widths. See ZZFI for values.									

GT Sets	or read	ls the A	GC tim	e consta	ant thun	nbwhee	l contro	l		
Get	GT	;								
Set	GT	P1	P1	P1	;					
Answer	GT	P1	P1	P1	;					
Notes	P1: Fi	xed = 0	00, Long	g = 001,	Slow =	002, Me	d = 003	004 = 1	Fast, 005	5 =
	Custon	n.								

ID Read	ls the tr	ansceiv	er ID nı	umber						
Get	ID	;								
Set										
Answer	ID	P1	P1	P1	;					
Notes	P1 defa	aults to (019 (TS-	-2000).	The Fle	xRadio	id code	(900) m	ay be se	lected
	remotely using ZZID. ID is read-only.									

IF Read	s the tra	ansceive	er status	,								
Get	IF	;										
Set												
Answer	IF	P1	P1	P1	P1	P1	P1	P1	P1	P1		
	P1	P1	P2	P2	P2	P2	P3	P3	P3	P3		
	P3	3 P3 P4 P5 P6 P7 P7 P8 P9 P10										
	P11	P12	P13	P14	P14	P15	;					
	P2 (4 c) P3 (6 c) P4 (1 c) P5 (1 c) P6 (1 c)	character character character character character	rs) Frequers) RIT/Z c) RIT st c) XIT st c) Chann	nency sto XIT frequents. 0 atus. 0 ael bank	quency in ep size equency (= off, 1 = off, 1 number control of the control of th	expressed +nnnnn = on. = on. . Not us	d in pow or –nnn sed, defa	vers of 1 nn).	0.	ZST).		
	P8 (1 c) P9 (1 c) P10 (1) P11 (1) P12 (1) P13 (1) P14 (2) P15 (1)	character character character character character character character	r) MOX r) Opera er) VFO er) Scan er) VFO er) CTC ers) Mon er) Shift	button sting mod Split status. Split status. Split status. The tone constatus.	status. Ode. See atus. Sa Not impatus. Sar Not us controls. Not use	D = off, 1 MD for one as Follemente me as Folled, defa Not use d, defau	= on (t settings R (alwa ed, defau Γ. ulted to ed, defau lted to 0	ransmitt . ys 0). ilted to 0 . ulted to	ing).). 00.	Radio.		

KS Sets o	r reads	CWX (CW spec	ed				
Get	KS	;						
Set	KS	P1	P1	P1	;			
Answer	KS	P1	P1	P1	1			
Notes	P1 01	0 - 060	in WPM	[

KY Sen	KY Sends text to CWX for conversion to Morse											
Get	KY	;										
Set	KY	P1	P2	P2	P2	P2	P2	P2	P2	P2		
	P2	P2	P2	P2	P2	P2	P2	P2	P2	P2		
	P2	P2	P2	P2	P2	P2	;					
Answer	KY	P1	;									
Notes	Get: I	P1 0 = 0	haracte	r buffer	availabl	e, 1 = 0	Character	buffer	not avail	lable		
	(> 72	(> 72 characters in the buffer). Set: P1 = space, P2 up to 24 ASCII printing										
	characters. Empty character positions in P2 must contain a space.											

MD Sets	MD Sets or reads the transceiver operating mode												
Get	MD	;											
Set	MD												
Answer	MD	P1	;										
Notes	P1 val	ues:											
	1 = LS	$^{\mathrm{SB}}$											
	2 = US	SB											
	3 = CV	WU											
	4 = FN	ΛN											
	5 = AN	M											
	6 = RT	TTY (D	(GL)										
	7 = CV	WL	ŕ										
	9 = FS	K-R (D	IGU)										

MG Sets or reads the Microphone Gain thumbwheel control										
Get	MG	;								
Set	MG	P1	P1	P1	;					
Answer	MG	P1	P1	P1	;					
Notes	P1 = 0	00 to 10	0.							

MO Sets or reads the Monitor (MON) status										
Get	MO	;								
Set	MO	P1	;							
Answer	MO	P1	;							
Notes	P1 = 0	P1 = 0 for on, 1 for off.								

NB Sets	s or rea	ds the N	loise Bla	anker 1	(NB1)	status				
Get	NB	;								
Set	NB	P1	;							
Answer	NB	P1	;							
Notes	P1 =	0 for on,	1 for of	f.	1	'	'	•		
	•	•								
NT Sets	s or rea	ds the A	utomat	ic Note	h Filter	(ANF)	status			
Get	NT	;								
Set	NT	P1	;							
Answer	NT	P1	;							
Notes	P1 =	0 for on,	1 for of	f.	,	•	•	•	•	•
	•									
PC Sets	s or rea	ds the P	A Powe	r (PWF	R) status	6				
Get	PC	;								
Set	PC	P1	P1	P1	;					
Answer	PC	P1	P1	P1	;					
Notes	P1 =	000 to 10	00.	<u>, </u>		.				ı
PR Sets	s or rea	ds the S	peech (Compre	ssor (C	OMP) st	atus			
Get	PR	;								
Set	PR	P1	;							
Answer	PR	P1	;							
Notes	P1 =	0 for on,	1 for of	f.	· ·					
	T.	·								
PS Sets	or reac	ds the P	ower Bu	itton sta	atus					
Get	PS	;								
Set	PS	P1	;							
Answer	PS	P1	;							
Notes	P1: 0	0 = Stand	lby, 1 = 0	On.	1				<u>.</u>	1
	1		.							
QI Sets	the Ou	ick Sav	e memo	ry (OS))					
Get										
Set	QI	;					1			
Answer		7					1			

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RC

QI is write-only.

RC is write-only.

Clears the RIT frequency (RIT[0])

Notes

RC Get

Set Answer Notes

RT Sets or reads the RIT button status										
Get	RT	;								
Set	RT	P1	;							
Answer	RT	P1	;							
Notes	P1 = 0	P1 = 0 for on, 1 for off.								

RX Sets the transceiver to Receive mode (MOX off)												
Get												
Set	RX	;										
Answer												
Notes	RX is	RX is write-only.										

SH Sets	s or reads the variable DSP Filter high frequency										
Get	SH	;									
Set	SH	P1	P1	;							
Answer	SH	P1	P1	;							
Notes	SSB M	lodes (U	SB, LS	B, CWU	and CV	VL) in H	Iz	•			
	00	= 1400)								
	01	= 1600)								
	02	= 1800)								
	03	= 2000)								
	04	= 2200)								
		= 2400									
		= 2600									
		= 2800									
		= 3000									
		= 3400									
		= 4000									
	11	= 5000)								
	DCD Y	Modes (/	M DCI	D EMNI	, DRM,	CAM)					
		= 2500		D, I'IVIIN	, DKWI,	SAWI)					
		= 3000									
		= 4000									
		= 5000									
	03	- 3000	,								
	SH has	s no effe	ct in RT	TY, PS	K, or SP	EC.					

SL Sets	SL Sets or reads the variable DSP filter low frequency											
Get	SL	;										
Set	SL	P1	P1	;								
Answer	SL	P1	P1	;								
Notes		•	JSB, LS	B, CWU	and CV	VL) in I	Ηz					
		= 0										
		= 50										
		= 100										
		= 200										
		= 300										
		= 400										
		= 500										
		= 600										
		= 700										
		= 800										
		= 900										
	11	= 1000)									
	DSR M	Modes (A	AM DS	B, FMN	DRM	SAM)						
		=0	11,1, 155	5 , 1 1/11 (, Diavi ,	51 1111)						
		= 100										
		= 200										
		= 500										
	SL has	no effe	ct in RT	TY, PSI	K, or SP	EC.						

SM Rea														
Get	SM	P1	;											
Set														
Answer	SM	P1	P2	P2	P2	P2	;							
Notes	P1 = 0) for ma	in trans	ceiver.										
	P2 = 0	0000 to	0030 wł	nere 0015	5 = S9.	Current	code ne	eds impr	ovemen	t for				
	readin	gs abov	e S9.											
	SM is	read-or	ıly.											

SQ Sets	or read	ls the S	quelch	(SQL)	humbw	heel co	ontrol			
Get	SQ	P1	;							
Set	SQ	P1	P2	P2	P2	;				
Answer	SQ	P1	P2	P2	P2	;				
Notes			in trans 55 (scal		ftware to	0 – 16	50, SQ01	27; = 80	on the c	ontrol.

TX Sets	the tra	nsceiver	to Tra	nsmit m	ode (M	OX on)					
Get											
Set	TX	;									
Answer											
Notes	TX is	TX is write-only. Not totally compatible with Kenwood but is modified to									
	maintain compatibility with third-party software.										

UP Mov	es VFO	A up b	y the in	cremen	t set in s	step size	;					
Get												
Set	UP	P ;										
Answer												
Notes	Notes UP is write-only											

XT Sets	or read	ls the X	IT statu	S						
Get	XT	;								
Set	XT	P1	;							
Answer	XT	P1	;							
Notes	P1 = 0	P1 = 0 for on, 1 for off.								

FlexRadio Custom Commands

ZZAG	Sets or re	ads the	Audio	Gain co	ontrol					
Get	ZZAG	;								
Set	ZZAG	P1	P1	P1	;					
Answer	ZZAG	P1	P1	P1	;					
Notes	Notes $P1 = 000 \text{ to } 100.$									

ZZAI Se	ts or re	ads the	Auto In	format	ion func	ction					
Get	ZZAI	;									
Set	ZZAI	P1	;								
Answer	ZZAI	P1	:								
Notes	P1 = 0	for Off,	1 or mo	ore for C	n. Whe	n On, th	e radio	will bro	adcast th	ne	
	VFO (VFO (A or B) frequency when changed. Option checkbox on the Setup/CAT									
	tab must be checked to allow this command.										

ZZAR	ZZAR Sets or reads the AGC Threshold control												
Get	ZZAR	;											
Set	ZZAR	P1	P1	P1	P1	;							
Answer	ZZAR	P1	P1	P1	P1	;							
Notes $P1 = -20 \text{ to } +120 \text{ (Must have } + \text{ or } -\text{ sign)}.$													

ZZBD	Moves th	e band :	switch o	down or	e band						
Set	ZZBD	ZZBD ;									
Notes	ZZBD i	s write-	only								

ZZBG	Sets or re	eads the	Band (Group (HF/VH	F)				
Get	ZZBG	;								
Set	ZZBG	P1	;							
Answer	ZZBG	P1	;							
Notes	Notes $P1 = 0$ for HF, 1 for VHF.									

ZZBI S	Sets or re	ads the	Binaur	al (BIN)) status					
Get	ZZBI	;								
Set	ZZBI	P1	;							
Answer	ZZBI	P1	;							
Notes	P1 = 0	P1 = 0 for off, 1 for on.								

ZZBR S	ets or rea	ads the	BCI Re	jection	button :	status					
Get	ZZBR	;									
Set	ZZBR	BR P1 ;									
Answer	ZZBR	P1	;								
Notes	P1 = 0 for OFF, 1 for ON.										

ZZBS S	ZZBS Sets or reads the Band Switch											
Get	ZZBS	;										
Set	ZZBS	P1	P1	P1	;							
Answer	ZZBS	P1	P1	P1	;							
Notes	(when 2		transvei	ter is in	040, 030 stalled),		, ,		, ,			

ZZBU I	ZZBU Moves the band switch up one band											
Set	ZZBU ;											
Notes	ZZBU is write-only											

ZZCB Se	ZZCB Sets or reads the Break In Enable checkbox status											
Get												
Set	ZZCB	,										
Answer	ZZCB	P1	;									
Notes	P1 = 0 for disabled, 1 for enabled.											

ZZCD S	ZZCD Sets or reads the Break In Delay value											
Get	ZZCD	;										
Set	ZZCD	P1	P1	P1	P1	;						
Answer	ZZCD	P1	P1	P1	P1	;						
Notes	P1 = 01	P1 = 0150 to 5000										

ZZCF S	ZZCF Sets or reads the Show TX CW Frequency checkbox status										
Get	ZZCF	;									
Set	ZZCF	ZCF P1 ;									
Answer	ZZCF	P1	;								
Notes	P1 = 0	P1 = 0 for disabled, 1 for enabled.									

ZZCI Set	ZZCI Sets or reads the CW Iambic checkbox status										
Get	ZZCI	;									
Set	ZZCI	,									
Answer	ZZCI	P1	;								
Notes	P1 = 0 for disabled, 1 for enabled.										

ZZCL S	ZZCL Sets or reads the CW Pitch (Setup DSP)											
Get	ZZCL	;										
Set	ZZCL	P1	P1	P1	P1	;						
Ans wer	ZZCL	P1	P1	P1	P1	;						
Notes	P1 = 02	P1 = 0200 to 1200.										

ZZCM S	ZZCM Sets or reads the CW Monitor checkbox status												
Get	ZZCM	;											
Set	ZZCM	ZCM P1 ;											
Answer	ZZCM	P1	;										
Notes	otes $P1 = 0$ for disabled, 1 for enabled.												

ZZCP S	ZZCP Sets or reads the Compander (CMP) button status										
Get	ZZCP	;									
Set	ZZCP	,									
Answer	ZZCP	P1	;								
Notes	P1 = 0	P1 = 0 for off, 1 for on.									

ZZCS Se	ZZCS Sets or reads the CW Speed											
Get	ZZCS	;										
Set	ZZCS	P1	P1	;								
Answer	ZZCS	P1	P1	;								
Notes	P1 = 01	P1 = 01 to 60										

ZZCT S	ZZCT Sets or reads the Compander Threshold value											
Get	ZZCT	;										
Set	ZZCT	<u> </u>										
Answer	ZZCT	P1	P1	;								
Notes	Notes $P1 = 00 \text{ to } 10.$											

ZZCU Reads the CPU Usage											
Get	ZZCU	ZZCU ;									
Set											
Answer	ZZCU	P1	P1	P1	P1	P1	P1	;			
Notes	P1 = 00	P1 = 000.00 to 100.00									

ZZDA S	ets or rea	ads the	Display	Averag	ge (AVG	f) status	3		
Get	ZZDA	;							
Set	ZZDA	P1	;						
Answer	ZZDA	P1	;						
Notes	P1 = 0.1	for off, 1	l for on.						

ZZDM	Sets or re	ads the	Display	y Mode			
Get	ZZDM	;					
Set	ZZDM	P1	;				
Answer	ZZDM	P1	;				
Notes	P1 value	es:					
	0 = Spec	ctrum					
	1 = Pana	adapter					
	2 = Sco	pe					
	3 = Phas						
	4 = Phas	se2					
	5 = Wat	erfall					
	6 = Hist	ogram					
	7 = Off						

ZZDX S	ets or rea	ads the	Phone I	OX butt	on statu	IS		
Get	ZZDX	;						
Set	ZZDX	P1	;					
Answer	ZZDX	P1	;					
Notes	P1 = 0.1	for off, I	l for on.					

ZZEA Se	ets or rea	ds the	RX EQ	values									
Get	ZZEA	;											
Set	ZZEA	P1	P1	P1	P2	P2	P2	P3	P3	P3			
		P4	P4	P4	P5	P5	P5	P6	P6	P6			
		P7	P7	P7	P8	P8	P8	P9	P9	P9			
		P10	P10	P10	P11	P11	P11	P12	P12	P12			
		;											
Answer	ZZEA												
		P4	P4	P4	P5	P5	P5	P6	P6	P6			
		P7	P7	P7	P8	P8	P8	P9	P9	P9			
		P10	P10	P10	P11	P11	P11	P12	P12	P12			
		;											
Notes	P1 = number of EQ bands (003 or 010); P2 = EQ preamp setting (-12 to												
	015); P3 thru P12 are the setting of each EQ band (-12 to 015). If the												
	number	number of bands = 003, P6 thru P12 are all zeros.											

ZZEB Se														
Get	ZZEA	;												
Set	ZZEA	P1	P1	P1	P2	P2	P2	P3	P3	P3				
		P4	P4	P4	P5	P5	P5	P6	P6	P6				
		P7	P7	P7	P8	P8	P8	P9	P9	P9				
		P10	P10	P10	P11	P11	P11	P12	P12	P12				
		;												
Answer	ZZEA													
		P4	P4	P4	P5	P5	P5	P6	P6	P6				
		P7	P7	P7	P8	P8	P8	P9	P9	P9				
		P10	P10	P10	P11	P11	P11	P12	P12	P12				
		;												
Notes	P1 = number of EQ bands (003 or 010); P2 = EQ preamp setting (-12 to													
	015); P3 thru P12 are the setting of each EQ band (-12 to 015). If the													
	number	number of bands = 003, P6 thru P12 are all zeros.												

ZZER Se	ets or rea	ds the l	RX EQ	button :	status			
Get	ZZER	;						
Set	ZZER	P1	;					
Answer	ZZER	P1	;					
Notes	P1: 0 =	OFF, 1	= ON					

ZZET Se	ts or rea	ds the '	TX EQ	button s	status			
Get	ZZET	;						
Set	ZZET	P1	;					
Answer	ZZET	P1	;					
Notes	P1: 0 =	OFF, 1	l = ON					

ZZFA Se	ts or rea	ds VFC) A freq	uency							
Get	ZZFA	;									
Set	ZZFA	P1	P1	P1	P1	P1	P1	P1	P1	P1	
		P1	P1	;							
Answer	ZZFA	P1	P1	P1	P1	P1	P1	P1	P1	P1	
		P1	P1	;							
Notes	P1 = fr	P1 = frequency in Hz (11 digits). Blank digits must be 0. Example:									
	14,320.	14,320.150 = 00014320150.									

ZZFB Se	1 0												
Get	ZZFB	;											
Set	ZZFB	P1	P1	P1	P1	P1	P1	P1	P1	P1			
		P1	P1	;									
Answer	ZZFB	P1	P1	P1	P1	P1	P1	P1	P1	P1			
		P1	P1	;									
Notes	P1 = fr	P1 = frequency in Hz (11 digits). Blank digits must be 0. Example:											
	14,320	14,320.150 = 00014320150.											

ZZFH Set	ts or rea	ds DSP	Filter I	High					
Get	ZZFH	;							
Set	ZZFH	P1	P1	P1	P1	P1	;		
Answer	ZZFH	P1	P1	P1	P1	P1	;		
Notes	P1 = fr	equency	in Hz -	-9999 to	09999.				

ZZFI S	ets or re	ads th	e current	t DSP r	eceive f	ilter				
Get	ZZFI	;								
Set	ZZFI	P1	P1	;						
Answer	ZZFI	P1	P1	;						
Notes	P1 valu	ues:	lsb/usb/	digl/dig	u am/	fmn/san	n/dsb	cwl/cwt	1	
	00		5.0K	-		16K		1.0K		
	01		4.4K	-		12K		800		
	02		3.8K			10 K		750		
	03		3.3K	-		8.0K		600		
	04		2.9K	-		6.6K		500		
	05		2.7K	-		5.2K		400		
	06		2.4K	-		4.0K		250		
	07		2.1K	-		3.1K		100		
	08		1.8K			2.9K		50		
	09		1.0K	-		2.4K		25		
	10		VAF	R 1		VAR1		VAR1		
	11		VAR	22		VAR2		VAR2		
			default v ustom val				ers. If	you custo	omize y	our

ZZFL Set	s or reac	ds DSP	Filter H	ligh						
Get	ZZFL	;								
Set	ZZFL	P1	P1	P1	P1	P1	;			
Answer	ZZFL	P1	P1	P1	P1	P1	;			
Notes	P1 = frequency in Hz -9999 to 09999.									

ZZFM Re	ads the l	FlexRad	lio Mod	el Num	ber								
Get	ZZFM	;											
Set													
Answer	ZZFM	P1	;										
Notes	Read or	Read only. P1: $0 = SDR1000$, $1 = FLEX5000$.											

ZZGE S	ets or re	ads the	Noise G	ate Ena	able but	ton stat	us						
Get	ZZGE	;											
Set	ZZGE	ZZGE P1 ;											
Answer	ZZGE	P1	;										
Notes	Notes $P1 = 0$ for disabled, 1 for enabled.												

ZZGL S	ZZGL Sets or reads the Noise Gate Threshold value												
Get	ZZGL	;											
Set	ZZGL	P1	P1	P1	P1	;							
Answer	ZZGL	P1	P1	P1	P1	;							
Notes	P1 = -160 to 0 (- sign required except for 0000).												

ZZGT S	Sets or reads th	e AGC 1	humbw	heel co	ntrol		
Get	ZZGT ;						
Set	ZZGT P1	;					
Answer	ZZGT P1	;					
Notes	P1 values:						
	0 = Fixed						
	1 = Long						
	2 = Slow						
	3 = Med						
	4 = Fast						
	5 = Custom						

ZZID S	ets the t	ranscei	ver iden	tificatio	n to Fle	exRadio	ı	ZZID Sets the transceiver identification to FlexRadio											
Get																			
Set	ZZID	ZID ;																	
Answer																			
Notes	ZZID i	ZZID is used to remotely force the transceiver id to 900 FlexRadio).																	

ZZHA S	ets or re	ads Auc	lio Buff	er Size									
Get	ZZHA	;											
Set	ZZHA	HA P1 ;											
Answer	ZZHA	P1	;										
Notes	tes P1: $0 = 256$, $1 = 512$, $2 = 1024$, $3 = 2048$, $4 = 4096$												

ZZHR Se	ets or rea	ds DSP	RX Bu	ffer Siz	e								
Get	ZZHR	;											
Set	ZZHR	ZHR P1 ;											
Answer	ZZHR	P1	;										
Notes	P1: 0 =	P1: $0 = 256$, $1 = 512$, $2 = 1024$, $3 = 2048$, $4 = 4096$											

ZZHT Se	ZZHT Sets or reads DSP TX Buffer Size													
Get	ZZHT	ZZHT ;												
Set	ZZHT	ZHT P1 ;												
Answer	ZZHT	P1	;											
Notes	P1: 0 =	P1: 0 = 256, 1 = 512, 2 = 1024, 3 = 2048, 4 = 4096												

ZZIF R														
Get	ZZIF	;												
Set														
Answer	ZZIF	P1	P1	P1	P1	P1	P1	P1	P1	P1				
	P1													
	P3	P3 P4 P5 P6 P7 P7 P8 P9 P9												
	P10													
Notes		P1 (11 characters) VFO A frequency in Hz. Same as FA; P2 (4 characters) Frequency step size expressed in powers of 10 (see ZZST).												
	,			•					0 (see Z	ZZST).				
	,		*	-	• •	+nnnnn	or –nnn	nn).						
	`	characte	/		,									
	P5 (1 c	characte	c) XIT st	atus. 0	= off, 1	= on.								
	P6 (1 c	characte	r) Chanr	nel bank	number	. Not us	sed, defa	ulted to	0.					
	P7 (2 c	characte	s) Chan	nel banl	k numbe	r. Not u	ised, def	aulted t	o 00.					
	P8 (1 c	characte	OMOX	button s	status. 0	= off, 1	= on (t	ransmitt	ing).					
	P9 (2 c	characte) Opera	ting mo	de. See	ZZMD	for setti	ngs.						
	P10 (1	characte	er) VFO	Split st	atus. Sa	me as F	R (alwa	ys 0).						
	P11 (1	characte	er) Scan	status.	Not imp	olemente	d, defau	ilted to ().					
	P12 (1	characte	er) VFO	Split st	atus. Sai	me as ZZ	ZSP.							
	P13 (1	P12 (1 character) VFO Split status. Same as ZZSP. P13 (1 character) CTCSS tone. Not used, defaulted to 0.												
	P14 (2	charact	ers) Moi	re tone o	controls.	Not us	ed, defa	ulted to	00.					
	P15 (1	characte	er) Shift	status.	Not use	d, defau	lted to 0							

ZZIS Se	ZZIS Sets or reads the variable filter width slider												
Get	ZZIS	;											
Set	ZZIS	P1	P1	P1	P1	P1	;						
Answer	ZZIS	P1	P1	P1	P1	P1	;						
Notes	s P1 = 00000 to 10000.												

ZZIT Se	ets or re	ads the	variabl	e filter	shift sli	der							
Get	ZZIT	;											
Set	ZZIT	P1	P2	P2	P2	P2	;						
Answer	ZZIT	P1	P2	P2	P2	P2	;						
Notes	P1 = "	P1 = "+" or "-"											
	P2 = 0	000 to 1	000 (-10	000 to +	1000)								

ZZIU R	esets th	e varial	ole filter	shift sl	ider							
Get												
Set	ZZIU	ZIU ;										
Answer							;					
Notes	Write only											

ZZKS S	ets or re	ads the	CWX (CW spe	ed					
Get	ZZKS	;								
Set	ZZKS	P1	P1	P1	;					
Answer	ZZKS	P1	P1	P1	;					
Notes	Notes P1 = 010 to 060 in WPM									

ZZKY	Sends tex	t to CV	VX for o	convers	ion to N	Iorse						
Get	ZZKY	;										
Set	ZZKY	P1	P2	P2	P2	P2	P2	P2	P2	P2		
	P2	P2	P2	P2	P2	P2	P2	P2	P2	P2		
	P2	P2	P2	P2	P2	P2	;					
Answer	ZZKY	P1	;									
Notes	Get: P1	0 = Ch	naracter	buffer a	vailable	1 = Ch	aracter l	ouffer n	ot availa	ble		
	(>72 ch	(>72 characters left in buffer), 2 = buffer is empty and all code has been sent.										
	Set: P1 = space, P2 up to 24 ASCII printing characters Empty character											
	position	positions in P2 must contain a space.										

ZZMA	Sets or re	eads the	Mute (MUT) s	status					
Get	ZZMA	;								
Set	ZZMA	P1	;							
Answer	ZZMA	P1	;							
Notes	P1 = 0 f	P1 = 0 for off, 1 for on.								

ZZMD	Sets or re	ads the	e Opera	ting Mo	ode			
Get	ZZMD	;						
Set	ZZMD	P1	P1	;				
Answer	ZZMD	P1	P1	;				
Notes	P1 value	es:						
	00 = LS	В						
	01 = US	В						
	02 = DS	В						
	03 = CV	VL						
	04 = CV	VU						
	05 = FM	IN						
	06 = AN	1						
	07 = DI	GU						
	08 = SP	EC						
	09 = DI	GL						
	10 = SA	M						
	11 = DF	RM						

ZZMG	Sets or re	eads the	Mic ga	in				
Get	ZZMG	;						
Set	ZZMG	P1	P1	P1	;			
Answer	ZZMG	P1	P1	P1	;			
Notes	P1 = 00	0 to 070)	_				

ZZMN	Reads the	DSP Fi	lter na	mes an	d values	S				
Get	ZZMN	P1	P1	;						
Answer	ZZMN	See								
		below								
Notes	P1 Valu	es: The	two-dig	git mode	e code (See ZZI	MD)			
	represer the mod subgrou high filt	nrn string all the request ps of fiver value, 50 –160	the nam ted. The charac and 11	nes and late 15 checters: 1 -15 is the	high/low aracter g -5 are is he low f	v values groups a s name o	for each are broke of the fil	h filter c en dowr lter butte	ontained into	d in

ZZMO S	ets or rea	ads the	Monito	r (MON	l) status	}				
Get	ZZMO	;								
Set	ZZMO	P1	;							
Answer	ZZMO	P1	;							
Notes	P1: 0 =	P1: $0 = OFF, 1 = ON$								

ZZMR	Sets or re	eads tl	ne RX N	Meter	mode			
Get	ZZMR	;						
Set	ZZMR	P1	;					
Answer	ZZMR	P1	;					
Notes	P1 Valu	es:						
	0 = Sign	nal Str	ength					
	1 = Sigr	al Av	erage					
	2 = AD	СL						
	3 = AD	C R						
	4 = Off							

ZZMS Se	ets or rea	nds the	MultiR	X Swap	checkb	ox				
Get	ZZMS	;								
Set	ZZMS	P1	;							
Answer	ZZMS	P1	;							
Notes	P1: 0 =	P1: $0 = OFF, 1 = ON$								

ZZMT	Sets or re	ads the	TX M	eter mo	de			
Get	ZZMT	;						
Set	ZZMT	P1	P1	;				
Answer	ZZMT	P1	P1	;				
Notes	P1 Valu	es:						
	00 = For	rward P	ower					
	01 = Re	verse P	ower					
	02 = Mi	c						
	03 = EQ							
	04 = Le	veler						
	$05 = Le^{x}$	v Gain						
	06 = CC)MP						
	07 = CP	DR						
	08 = AL	C						
	09 = AL	C CON	I P					
	10 = SW	VR						
	11 = Of	f						

ZZMU S	ets or rea	ads the	MultiR	X butto	n status			
Get	ZZMU	;						
Set	ZZMU	P1	;					
Answer	ZZMU	P1	;					
Notes	P1: 0=	OFF,	1 = ON					

ZZNA	Sets or re	ads the	Noise I	Blanker	(NB) st	atus				
Get	ZZNA	;								
Set	ZZNA	P1	;							
Answer	ZZNA	P1	;							
Notes	P1 = 0	P1 = 0 for off, 1 for on.								

ZZNB	Sets or re	ads the	Noise E	Blanker	2 (NB2)) status		
Get	ZZNB	;						
Set	ZZNB	P1	;					
Answer	ZZNB	P1	;					
Notes	P1 = 0	for off,	l for on.					

ZZNL S	Sets or re	ads the	Noise I	Blanker	1 thres	shold (Se	etup DS	P tab)	
Get	ZZNL	;							
Set	ZZNL	P1	P1	P1	;				
Answer	ZZNL	P1	P1	P1	;				
Notes	P1 = 00	1 to 20	0.						

ZZNM S	Sets or rea	ads the	Noise B	lanker	2 thresl	hold		
Get	ZZNM	;						
Set	ZZNM	P1	P1	P1	P1	;		
Answer	ZZNM	P1	P1	P1	P1	;		
Notes	P1 = 000	01 to 10	00.					

ZZNR S	ets or re	ads the	Noise R	eductio	n (NR)	status		
Get	ZZNR	;						
Set	ZZNR	P1	;					
Answer	ZZNR	P1	;					
Notes	P1 = 0	for off,	1 for on.					

ZZNT	Sets or re	ads the	Auto N	otch Fil	lter (AN	F) stati	us			
Get	ZZNT	;								
Set	ZZNT	P1	;							
Answer	ZZNT	P1	;							
Notes	P1 = 0 for off, 1 for on.									

ZZOA	Sets or re	eads the	e antenn	a conn	ected to	RX1 (F	LEX50	00 only)		
Get	ZZOA	;									
Set	ZZOA	P1	;								
Answer	ZZ0A	P1	;								
Notes	P1 Valu	P1 Values: 0 = Ant 1, 1 = Ant 2, 2 = Ant 3, 3 = RX1 In.									

ZZOB S	Sets or re	ads the	antenna	conne	cted to 1	RX2 (F)	LEX500	00 only)					
Get	ZZOB	;											
Set	ZZOB	COB P1 ;											
Answer	ZZ0B	P1	;										
Notes	P1 Values: Not defined yet, waiting for RX2 testing												

ZZOC	Sets or re	eads the	e antenn	a conne	ected to	the tra	nsmitte	r (FLEX	X5000 o	nly)	
Get	ZZOC	;									
Set	ZZOC	P1	;								
Answer	ZZ0C	P1	;								
Notes	P1 Valu	P1 Values: 0 = Ant 1, 1 = Ant 2, 2 = Ant 3.									

ZZOD	Sets or re	eads th	e currer	nt anten	na mod	le (FLE	X5000 d	only)			
Get	ZZOD	;									
Set	ZZOD	P1	;								
Answer	ZZ0D	P1	;								
Notes	P1 Valu	P1 Values: 0 = Simple, 1 = Complex									

ZZOE	Sets or re	eads the	e RX1 lo	op (FL	EX5000	only)				
Get	ZZOE	;								
Set	ZZOE	P1	;							
Answer	ZZ0E	P1	;							
Notes	lotes P1 Values: 0 = Loop Disabled, 1 = Loop Enabled									

ZZOF S												
Get	ZZOF	;										
Set	ZZOF	P1	P2	P3	;							
Answer	ZZ0F	P1	P2	P3	;							
Notes	P1 = R0	CATX1,	P2 = R	CATX2	2, P3 = R	CATX3	1 = E	nabled,	0 = Disa	ıbled,		
	all posi	all positions must be represented: ZZOF010 = TX2 enabled, TX1 and TX2										
	disabled. ZZOF111 = all enabled, ZZOF000 = all disabled.											

ZZPA S	ets or rea	ds the	Preamp	olifier (l	Preamp) setting	g		
Get	ZZPA	;							
Set	ZZPA	P1	;						
Answer	ZZPA	P1	;						
Notes	P1 value	es;							
	SDR-10	000	FLEX	5000x					
	0 = Off		0 =	Off					
	1 = Low	V	1 =	On					
	2 = Mec	1							
	3 = High	h							

ZZPC Se	ZZPC Sets or reads the PA Drive level												
Get	ZZPC	;											
Set	ZZPC	ZPC P1 P1 P1 ;											
Answer	ZZPC	P1	P1	P1	;								
Notes	P1 = 00	P1 = 000 to 100											

ZZPD	ZPD Sets the Display Pan Center button												
Set	ZZPD	ZPD ;											
Notes	Write-o	Write-only											

ZZPK Se	ZZPK Sets or reads Compressor (COMP) status												
Get	ZZPK	;											
Set	ZZPK	ZPK P1 ;											
Answer	ZZPK	P1	;										
Notes	P1 = 0 1	P1 = 0 for off, 1 for on.											

ZZPL S	ZZPL Sets or reads the Speech Compressor threshold											
Get												
Set	ZZPL											
Answer	ZZPL	P1	P1	;								
Notes	P1 = 00 to 20.											

ZZPO S	ZZPO Sets or reads the Display Peak button											
Get	Get ZZPO ;											
Set	ZZPO	ZPO P1 ;										
Answer	ZZPO	P1	;									
Notes	P1 = 0 for Off, 1 for On											

ZZPS Se	ZZPS Sets or reads the Start button												
Get	ZZPS	;											
Set	ZZPS	PS P1 ;											
Answer	ZZPS	P1	;										
Notes	P1 = 0	P1 = 0 for Off, 1 for On											

ZZPZ So	ZZPZ Sets or reads the Display Zoom buttons												
Get	ZZPZ	;											
Set	ZZPZ	ZPZ P1 ;											
Answer	ZZPZ	P1	;										
Notes	P1: 0 =	P1: $0 = 0.5X$, $1 = 1X$, $2 = 2X$, $3 = 4X$											

ZZQM	Reads the	Reads the Quick Save Memory value												
Get	ZZQM	;												
Set														
Answer	ZZQM	P1	P1	P1	P1	P1	P1	P1	P1	P1				
		P1	P1	;										
Notes	P1 = fre	P1 = frequency in Hz (11 digits). Example: 14,320.150 = 00014320150.												

ZZQR R	ZZQR Restores the Quick Save Memory (QR)												
Get													
Set	ZZQR	ZQR ;											
Answer													
Notes	ZZQR	ZZQR is write-only											

ZZQS	ZZQS Saves VFO A frequency to Quick Memory											
Set	ZQR ;											
Notes	Write-only											

ZZRC Clears the RIT frequency												
Set	ZZRC											
Notes	Write-only											

ZZRF Se	ZZRF Sets or reads the RIT frequency													
Get	ZZRF;													
Set	ZZRF	ZZRF P1 P2 P2 P2 ;												
Answer	ZZRF	P1	P2	P2	P2	P2	;							
Notes	P1 = po	P1 = polarity (+ or -)												
	P2 = frequency in Hz.													

ZZRM I	Reads the	Conso	le mete	r values	5								
Get	ZZRM	P1	;										
Set													
Answer	ZZRM	P1	P2	P2	P2	P2	P2	P2	P2	P2			
	P2	P2	P2	P2	P2	P2	P2	P2	P2	P2			
	P2	P2	;										
Notes	P1 Valu	ies:											
	0 = Sign	0 = Signal Strength											
	1 = Ave	rage St	rength										
	2 = AD	C_L											
	3 = AD	C_R											
	4 = ALC												
	5 = Forv	ward Po	wer										
	6 = Peal	k Power	•										
	7 = Rev	erse Po	wer										
	8 = SW	R											
	P2 is pa	dded le	ft with s	paces.									
	ZZRM i	ZZRM is read-only.											
****	Develop	Developers: P1 0-3 are functional, balance needs rewrite for new meter											
	function	s in the	transmi	it mode.									

ZZRT Se	ts or rea	ds the l	RIT ena	ble butt	ton stati	us				
Get	ZZRT	;								
Set	ZZRT	P1	;							
Answer	ZZRT	P1	;							
Notes	P1 = 0	P1 = 0 for Off, 1 for On								

ZZSA	Moves VF	O A do	wn one	Tune S	tep			
Set	ZZSA	;						
Notes	Write-o	nly						

ZZSB	Moves VF	O A up	one Tu	ne Step)			
Set	ZZSB	;						
Notes	Write-o	nly						

ZZSD	Decremen	ts the T	une Ste	p			
Set	ZZSD	;					
Notes	Write-o	nly					

ZZSF Set	ts the va	riable f	filter wi	dth and	center	(KD5T	FD filte	rs)			
Get											
Set	ZZSF	P1	P1	P1	P1	P2	P2	P2	P2	;	
Answer											
Notes	P1 = ce	enter fre	quency	in Hz.							
	P2 = w	P2 = width in Hz.									
	ZZSF i	is write-	only.								

ZZSM R	eads the	S-Mete	r							
Get	ZZSM	P1	;							
Set										
Answer	ZZSM	P1	P2	P2	P2	;				
Notes	P1 = 0									
	P2 = 00	0 to 260)							
	Each in	Each increment of ZZSM is approximately equal to 0.5 dBm.								

ZZSO S	ets or re	ads the	Squelch	on/off	status					
Get	ZZSO	;								
Set	ZZSO	P1	;							
Answer	ZZSO	P1	;							
Notes	\mathbf{S} P1 = 0 for off, 1 for on.									

ZZSP Se	ts or rea	ads the	VFO Sp	olit (SPI	LT) stat	us				
Get	ZZSP	;								
Set	ZZSP	P1	;							
Answer	ZZSP	P1	;							
Notes	P1 = 0 for off, 1 for on.									

ZZSQ Se	ts or rea	ds the S	Squelch	control				
Get	ZZSQ	;						
Set	ZZSQ	P1	P1	P1	;			
Answer	ZZSQ	P1	P1	P1	;			
Notes	P1 = 00	00 to 16	0.					

ZZSR Se	ZZSR Sets or reads the Spur Reduction button status											
Get	ZZSR	;										
Set	ZZSR	P1	;									
Answer	ZZSR	P1	;									
Notes	P1 = 0	P1 = 0 for OFF, 1 for ON.										

ZZST R	eads the	frequen	cy step	size						
Get	ZZST	;								
Set										
Answer	ZZST	P1	P1	P1	P1	;				
Notes	frequent 0000 = 0001 = 1000 = 1001 = 1010 = 0011 = 1010 = 0100 = 0101 = 0110 = 0111 =		1 Hz 10 Hz default to the second seco	for 50 H for 250 I for 500 I for 5 kH for 9 kH	Tz Hz Hz	s of 10	except for	or non-c	lecade	

ZZSU I	ncremen	ts the T	une Ste	p			
Set	ZZSU	;					
Notes	Write-o	nly					

ZZTF So	ets or rea	ads the	Show T	X Filter	checkb	ox statı	1S			
Get	ZZTF	;								
Set	ZZTF	P1	;							
Answer	ZZTF	P1	;							
Notes	P1 = 0	P1 = 0 for disabled, 1 for enabled.								

ZZTH Se	ets or rea	ds the	TX Filte	er High	setting				
Get	ZZTH	;							
Set	ZZTH	P1	P1	P1	P1	P1	;		
Answer	ZZTH	P1	P1	P1	P1	P1	;		
Notes	P1 = 00	0500 to 2	20000.						

ZZTL Se	ts or rea	ds the T	TX Filte	er Low s	setting			
Get	ZZTL	;						
Set	ZZTL	P1	P1	P1	P1	;		
Answer	ZZTL	P1	P1	P1	P1	;		
Notes	P1 = 00	000 to 20	000.					

ZZTP Se	ts or rea	ds the '	Fransm i	it Profil	le							
Get	ZZTP	;										
Set	ZZTP	P1	P1	;								
Answer	ZZTP	P1	P1	;								
Notes	P1: 0 =	P1: 0 = Conventional										
	1 =	1 = DX/Contest										
	2 =	ESSB										
	3 =	- AM										
	Above	Above only correct if no custom profiles saved. P1 is equal to the index										
	value o	value of the profile name in the Transmit Profile drop down list.										

ZZTU Se	ts or rea	ds the	Гune (Т	UN) sta	tus					
Get	ZZTU	;								
Set	ZZTU	P1	;							
Answer	ZZTU	P1	;							
Notes	P1 = 0 for off, 1 for on. Console power must be on for TUN to function.									

ZZTX Se	ets or rea	ds the	MOX bu	utton st	atus			
Get	ZZTX	;						
Set	ZZTX	P1	;					
Answer	ZZTX	P1	;					
Notes	P1 = 0	for off,	1 for on.	i				

ZZUA R	eads the	XVTR	Band B	utton N	ames					
Get	ZZUA	;								
Answer	ZZUA	P1	P1	P1	P1	P1	P2	P2	P2	P2
	P2	P3	P3	P3	P3	P3	P4	P4	P4	P4
	P4	P5	P5	P5	P5	P5	P6	P6	P6	P6
	P6	P7	P7	P7	P7	P7	P8	P8	P8	P8
	P8	P9	P9	P9	P9	P9	P10	P10	P10	P10
	P10	P11	P11	P11	P11	P11	P12	P12	P12	P12
	P12	P13	P13	P13	P13	P13	P14	P14	P14	P14
	P14	;								
Notes	P1 thru	P14 equ	ıal exact	tly 70 ch	naracter	spaces a	and mus	t contair	n either a	an
	ASCII o	ASCII character or a space. Each group of five characters contains the name								
	of the c	of the corresponding n-1 XVTR button name: P1 = button 0.								

ZZVA Se	ets or rea	ds the \	VAC bu	tton sta	itus			
Get	ZZVA	;						
Set	ZZVA	P1	;					
Answer	ZZVA	P1	;					
Notes	P1 = 0.1	for OFF	, 1 for C	N.				

ZZVB Se	ts or rea	ds the V	VAC RX	K Gain						
Get	ZZVB	;								
Set	ZZVB	P1	P1	P1	;					
Answer	ZZVB	P1	P1	P1	;					
Notes	P1 = -4	P1 = -40 to $+20$ (positive values must lead with sign or "0"								

ZZVC Se	ets or rea	ds the	VAC T	X Gain							
Get	ZZVC	;									
Set	ZZVC	P1	P1	P1	;						
Answer	ZZVC	P1	P1	P1	;						
Notes	P1 = -4	P1 = -40 TO +20 (positive value must lead with sign or "0"									

ZZVD Se	ets or rea	ds the	VAC Sa	ample R	late			
Get	ZZVD	;						
Set	ZZVD	P1	;					
Answer	ZZVD	P1	;					
Notes	P1:							
	0 = 600	0						
	1 = 800	0						
	2 = 110	25						
	3 = 120	00						
	4 = 240	00						
	5 = 220	50						
	6 = 441	00						
	7 = 480	00						

ZZVE Sets or reads the VOX button status									
Get	ZZVE	;							
Set	ZZVE	P1	;						
Answer	ZZVE	P1	;						
Notes	P1 = 0	P1 = 0 for OFF, 1 for ON.							

ZZVF Se	ZZVF Sets or reads the VAC Stereo button status									
Get	ZZVF	;								
Set	ZZVF	P1	;							
Answer	ZZVF	P1	;							
Notes	P1 = 0	P1 = 0 for OFF, 1 for ON.								

ZZVG S	ZZVG Sets or reads the VOX Gain value									
Get	ZZVG	;								
Set	ZZVG	P1	P1	P1	P1	;				
Answer	ZZVG	P1	P1	P1	P1	;				
Notes	P1 = 00	P1 = 0000 to 1000.								

ZZVL S	ZZVL Sets or reads the VFO Lock status									
Get	ZZVL	;								
Set	ZZVL	P1	;							
Answer	ZZVL	P1	;							
Notes	P1 = 0	P1 = 0 for off, 1 for on.								

ZZVN F	ZZVN Reads the PowerSDR software version number									
Get	ZZVN	;								
Set										
Answer	ZZVN	P1	;							
Notes	Returns	Returns ZZVN001.3.14.0; ten total characters including decimal points.								

ZZVS Se	ZZVS Sets the VFO Swap status									
Get										
Set	ZZVS	P1	;							
Answer										
Notes	P1 valu	P1 values:								
	0 = A > 1	0 = A > B								
	1 = A < 1	0 = A > B $1 = A < B$								
	2 = A < 2	$2 = A \Leftrightarrow B$								
	ZZVS i	is write	only.							

ZZXC	ZZXC Clears the XIT frequency (XIT[0])									
Set	ZZXC	;								
Notes	ZZXC	ZZXC is write-only.								

ZZXF Se	ZZXF Sets or reads the XIT frequency									
Get	ZZXF	;								
Set	ZZXF	P1	P2	P2	P2	P2	;			
Answer	ZZXF	P1	P2	P2	P2	P2	;			
Notes	P1 = po	P1 = polarity (+ or -)								
	P2 = free	P2 = frequency in Hz.								

ZZXS Se	ZZXS Sets or reads the XIT enable button									
Get	ZZXS	;								
Set	ZZXS	P1	;							
Answer	ZZXS	P1	;							
Notes	P1: 0=	P1: $0 = Off$, $1 = On$.								
ZZXT S	ZZXT Sets or reads the External Control (X2TR) button status									
Get	ZZXT	;								
Set	ZZXT	P1	;							
Answer	ZZXT	P1	;							
Notes	P1 = 0 for OFF, 1 for ON.									

ZZZB	ZZZB Clicks the Zero Beat (0 Beat) button									
Set	ZZZB	;								
Notes	Write-o	nly.								

FLEXRADIO CAT COMMAND REVISION RECORD

January 3, 2006 Revisions:

Corrected typo in MD.

Changed ZZMD to reflect DIGU and DIGL.

Added ZZTH and ZZTL commands.

February 25, 2007 Revisions

Added DN and UP commands.

Added special codes in ZZST for new console step size frequencies.

Corrected various typos.

March 20, 2007 Revisions:

Added:	ZZAR	AGC RF GAIN
Auucu.	$LL\Lambda I$	

ZZBR **BCI REJECTION** ZZCB BREAK IN ENABLE ZZCD **BREAK IN DELAY** ZZCF SHOW CW TX FREQ IAMBIC ON/OFF ZZCI

ZZCM CW MONITOR ON/OFF

ZZCT COMPANDER THRESHOLD VALUE ZZGE NOISE GATE ENABLE BUTTON ZZGL NOISE GATE LEVEL VALUE ZZSR SPUR REDUCTION ON/OFF

ZZTF SHOW TX FILTER

ZZVA VAC ON/OFF ZZVE VOX ENABLE ZZVG VOX GAIN VALUE

ZZXT X2TR ON/OFF

Updated: ZZFI (DSP Rx Filters) to reflect current console values.

(Dictionary update only, no change to CAT code).

April 4, 2007 Revisions:

GT AGC Gain Updated:

> ZZIU Filter Slider

ZZMT **TX Meter Functions**

Obsolete: FW DSP Filter Width

August 25, 2007 Revisions:

Updated MD Added MD9 for DigU

Added KY Send Morse

KS Get/Set Morse speed

September 16, 2007 Changes:

Updated GT Added 005 for "Custom"

ZZIF Removed P1 to match IF
ZZMT Added new meter functions
ZZPA Added FLEX5000 values

ZZVS Added IF -> V

Added:

ZZBD Moves the bandswitch down one band

ZZBU Moves the bandswitch up one band

ZZER Sets or reads the RXEQ button status

ZZET Sets or reads the TXEQ button status

ZZFA Sets or reads VFO A

ZZFB Sets or reads VFO B

ZZKS Sets or reads CWX CW speed

ZZKY Sends text to CWX for conversion to Morse

ZZMG Sets or reads the Mic gain

ZZMO Sets or reads the Monitor (MON) button status

ZZMS Sets or reads the MultiRX swap checkbox status

ZZMT Sets or reads the TX Meter mode

ZZMU Sets or reads the MultiRX button status

ZZNA Sets or reads Noise Blanker 1 button status

ZZNT Sets or reads the Auto Notch Filter button status

ZZPC Sets or reads the Drive level

ZZPD Sets the Display Pan Center button

ZZPK Sets or reads the Compressor (COMP) button status

ZZPL Sets or reads the Compressor Threshold

ZZPA Sets or reads the Preamp gain

ZZPO Sets or reads the Display Peak button status

ZZPS Sets or reads the Power button status

ZZPZ Sets or reads the Display Zoom buttons

ZZQS Saves the quick save memory value

ZZRC Clears the RIT frequency

ZZRT Sets or reads the RIT button status

ZZSA Moves VFO A down one Tune Step

ZZSB Moves VFO A up one Tune Step

ZZSD Moves the mouse wheel tuning step down

ZZSU Moves the mouse wheel tuning step up

ZZTP Sets or reads the TX Profile

ZZTX Sets or reads the MOX button statusZZXS Sets or reads the XIT button statusZZZB Zero beats the current signal

September 26, 2007 Changes:

Added ZZFH Set TX Filter High

ZZFL Set TX Filter Low

Corrected minor typos.

October 18, 2007 Changes:

Added ZZHA Sets/reads Audio Buffer Size

ZZHR Sets/reads DSP RX Buffer Size ZZHT Sets/reads DSP TX Buffer Size

October 20, 2007 Changes:

Added: ZZFM Reads the FlexRadio Model Number.

October 23, 2007 Changes:

Added ZZEA Reads or sets the RX EQ

ZZEB Reads or sets the TX EQ

October 25, 2007 Changes:

Corrected duplicate. ZZFL/ZZFH now read DSP Filter Hi/Lo

ZZTL/ZZTH still read TX Filter Hi/Lo

October 31, 2007 Changes:

Added ZZVB Reads or sets the VAC RX Gain

ZZVC Reads or sets the VAC TX Gain
ZZVD Reads or sets the VAC Sample Rate
ZZVF Reads or sets the VAC Stereo button

November 21, 2007 Changes:

Added: ZZUA Reads the XVTR Band Button Names

Changed: ZZBS Added VHF XVTR band buttons to command.

November 29, 2007 Changes:

Added: ZZOA Reads or sets the antenna connected to RX1

ZZOB Reads or sets the antenna connected to RX2

ZZOC Reads or sets the antenna connected to the transmitter

ZZOD Reads or sets the current antenna mode

ZZOE Reads or sets the RX1 Loop

ZZOF Reads or sets the RCA TX relay jacks

ZZMN Reads the DSP filter names and values

December 4, 2007 Changes:

Added AI Reads or sets the Auto Information function

ZZAI Same as above

December 12, 2007 Changes:

Modified: KY KY1 represents >72 characters in the buffer

ZZKY Added KY2: buffer empty and all chars sent

January 16, 2008 Changes:

Added ZZDX Sets or reads the Phone DX button status