ZachTek WSPR-TX Serial API as u	sed from	softwa	re revision 2:17		
PC User config Set or Get comma			Type of data and number of bytes		User config is sent by the PC configuration software
Description	Send	Set/Ge	Data [8]	Data	Comment
Command CurrentMode	[CCM]	S/G	Text 1 S=Sig, W=WSPR, N=None (Idle)		
Command CurrentReference	[CCR]	G	Text 1 E=External, I=Internal		
Command User Config Store in EEPROM	[CSE]	s	Town I External Internal		
Option TX Pause	IOTP1	S/G	Text 5 0-99999 Minutes		
Option StartMode	гоѕмі	S/G	Text 1 S=Sig, W=WSPR, N=None		
Option Band TX Enable	[OBD]	S/G	Text 2 Text 1 - Band number * , E/D E=Enable, D=Disable		
Option Location	iorci	S/G	Text 1. G=GPS calculated, M=Manual (DL4 or DL6 data)		
Option Locator Precision	[OLP]	S/G	Text 1. 4 or 6 = Number of character used in the Maidenhead report.		
Option Power	[OPW]	S/G	Text 1. N=Normal using the DPD Power Data. A=Altitude encoded.		
option i owei	[0. 11]	10,0	Text 2 Time Slot Code 0 to 16. 0-4=10 min. schedule, 5-14=20min schedule,		
			15=Band coordinated Schedule, 16=No schedule, 17=Tracker (only TX when		
Option Time Slot	[OTS]	S/G	on the move or at top of hour)		
Option PreFix/Suffix	IOPS1	S/G	Test1 P=Use Prefix. S=Use Suffix N=None		
Optionion set GPS Constellations	[OSC]	S/G	Text1 G=GPS Only, B= BeiDou Only, A= GPS And BeiDou		
Data CallSign	IDCSI	S/G	Text 6 Callsign		
Data Ganoign	[200]	10,0	Town o canong.		Call Sign suffix code. A / will be automatically appended after the Call Sign followed by the
Data Suffix	[DSF]	S/G	Text 3 Suffix code 000-125, 000-009= 0 to 9, 010-035=A to Z		suffix
			Text 3 Suffix code 000-125. 000-009= 0 to 9. 010-035=A to Z Text 3 Prefix padded with leading spaces if less than three characters. A-Z and		
Data Prefix	[DPF]	S/G	0-9 allowed		Call Sign prefix chars. A / will be automatically added between the Prefix and the Call Sign
Data Locator 4	[DL4]	S/G	Text 4 Maidenhead grid with four characters		
Data Locator 6	[DL6]	S/G	Text 6 Maidenhead grid with six characters		
Data PowerData	[DPD]	S/G	Text 2 Power in dBm. Padded with a leading zero to two characters 0-60dBm		
Data Name	[DNM]	S/G	Text 40		
Data Generator Frequency	[DGF]	S/G	Text 12 Frequency in Centi Hertz. Padded with leading zeros to 12 characters		
4					LP filters are automatically set by the WSPR Beacon and Signal Gen. routines but can be
Debug Set LP Filter	[CSL]	s	Text 1. Text1=A,B,C or D for LP bank.		temporarily overridden by this command for testing purposes
Data External Reference Frequency	[DER]	S/G	Text 9 Frequency in Hertz. Padded with leading zeros to 9 characters		Normally 010000000
Data Enternal Reference Frequency	1	0,0	Toke Troquelly III Toke Traded Militodaling 20100 to 0 orial actors		
PC Factory config Set or Get com	manda		Type of data and number of bytes		Factory data is set by the PC Factory configuration software.
		CatiCat	Data [8]	Data	Comment
Description Description	Send			Data	
Factory Product model Number	[FPN]	G C/C	Text 5 0-65534		1011=WSPR-TX_LP1, 1012=WSPR Desktop, 1017=WSPR Mini
Factory Hardware Version	[FHV]	S/G	Text 3 0-255		
Factory Hardware Revision	[FHR]	S/G	Text 3 0-255 Text 3 0-255		
Factory Software Version	[FSV]	G			
Factory Software Revision	[FSR]	G	Text 3 0-255		H
Factory Reference Oscillator Frequency	[FRF]	S/G	Text 9 Frequency in Hertz. Padded with leading zeros to 9 characters		Normally 026000000
				Text 2 00 to 15 for	98=just a link between input and output - the firmware will use this if no other filter is a
Factory Low Pass Filter installed	[FLP]	S/G	Text 1 A,B,C or D for indicating or setting bank of low pass filter A to D	band *	good match, 99=Nothing fitted (open circuit) the firmware will never use this as a filter
Cmd FactoryConfig Store in EEPROM	[FSE]	S			
Arduino replies for Get commands	5		Type of data and number of bytes		Replies from the device in respons to a Get query
Description	Return		Data	Data	
Cmd CurrentMode	{CCM}		Text 1 S=Sig, W=WSPR, N=None		
Option TX Pause	{OTP}		Text 5 0-99999 Minutes		
Option StartMode	(OSM)		Text 1 S=Sig, W=WSPR, N=None		
Option Band TX Enable	(OBD)		Text 2 Text 1. Band number *, E=Enable, D=Disable		
Option Location	(OLC)		Text 1. G=GPS calculated, M=Manual (DL4 data)		
Optionion set GPS Constellations	(OSC)		Text 1. G=GPS Only B=BeiDou Only, A= GPS And BeiDou		
Dat CallSign	(DCS)		Text 6		
Dat Locator 4	{DL4}		Text 4		
Dat Locator 6	{DL6}		Text 6		
Dat PowerData	(DPD)		Text 2 (00 to 60) dBm		
Dut I Offici Dutu			1. on 2 (so to oo) abiii		

Dat Name	{DNM}	Text 40		
Dat Rame Dat Generator Freq	{DGF}	Text 12 Frequency in Centi Hertz. Padded with leading zeros to 12 characters		
Dat Generator Freq	{DGL}	Text 12 Frequency in Centi Heriz. Facued with leading zeros to 12 characters		
Arduino Status update messa	ages	Type of data and number of bytes		These messages are sent whenever the device thinks it's appropriate
Description	Return	Data	Data	· · · · · · · · · · · · · · · · · · ·
Current Mode	{CCM}	Text 1 S=Sig, W=WSPR, N=None		
GPS locator 4 char Maidenhead	{GL4}	Text 4		
GPS Locator 6 char Maidenhead	{GL6}	Test 6		
GPS Time	{GTM}	Text 8 HH:MM:SS		
GPS Lock	{GLC}	Text 1 T=True F=False		
GPS Satellite data	{GSI}	Text2 Text3 Text2 - ID Az El SNR		
Transmitter Frequency	{TFQ}	Text 5-12 Frequency in centiHz, no leading zeros		
Transmitter On	{TON}	Text 1 T=True F=False		
Microcontroller Paus	{MPS}	Text 7 0-4,000,000Seconds		
Microcontroller Information	{MIN}	Text		
Low Pass filter set	{LPI}	Text 1 A-D		
MicroController VCC Voltage	{MVC}	Text 4 0-9999mV (Normally 3300)		
Transmitter Current Band	{TBN}	Text 2=Band number *		
Transmitter WSPR Symbol	{TWS}			
Transmitter WSPR Symbol	RIWS	Text 2 Text3 Band number *, WSPR symbol count 0-161		
Transmitter WSPR Band Cycle Con	mplete/TCC3	· • •		
Transmitter WSPR Band Cycle Con The configuration has an active configuration has a configuration has an active configuration has a co	mplete {TCC}	saved version in EEPROM. The command [CSE] S will store the RAM version down to EEPR	ROM.	
Transmitter WSPR Band Cycle Cor  The configuration has an active configuration has a configura	guration in RAM and a			neasured value of the TCXO reference was at last calibration etc.
Transmitter WSPR Band Cycle Cor  The configuration has an active configuration has a configura	guration in RAM and a	saved version in EEPROM. The command [CSE] S will store the RAM version down to EEPF ata is divided in two sections. Factory data and User data		neasured value of the TCXO reference was at last calibration etc.
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Transmitter WSPR Band Cycle Cor  The configuration has an active configuration has a configura	guration in RAM and a	saved version in EEPROM. The command [CSE] S will store the RAM version down to EEPf ata is divided in two sections. Factory data and User data were and holds information about the hardware, e.g what low pass filters are fitted in the four file and number definitions 00=2190m		neasured value of the TCXO reference was at last calibration etc.
Fransmitter WSPR Band Cycle Con  The configuration has an active configuration has a configura	guration in RAM and a	a saved version in EEPROM. The command [CSE] S will store the RAM version down to EEPI state is divided in two sections. Factory data and User data ware and holds information about the hardware, e.g what low pass filters are fitted in the four file *Band number definitions 00=2190m 01=630m		neasured value of the TCXO reference was at last calibration etc.
Transmitter WSPR Band Cycle Cor  The configuration has an active configuration has a configura	guration in RAM and a	a saved version in EEPROM. The command [CSE] S will store the RAM version down to EEPI state is divided in two sections. Factory data and User data rare and holds information about the hardware, e.g what low pass filters are fitted in the four file and number definitions 00=2190m 01=630m 02=160m		neasured value of the TCXO reference was at last calibration etc.
Transmitter WSPR Band Cycle Cor  The configuration has an active configuration has a configura	guration in RAM and a	* Band number definitions  00=2190m  01=630m  03=80m		neasured value of the TCXO reference was at last calibration etc.
Transmitter WSPR Band Cycle Cor  The configuration has an active configuration has a configura	guration in RAM and a	* Band number definitions 00=2190m 01=630m 02=160m 03=80m 04=440m		neasured value of the TCXO reference was at last calibration etc.
Transmitter WSPR Band Cycle Cor  The configuration has an active configuration has a configura	guration in RAM and a	* Band number definitions 00=2190m 01=630m 02=160m 03=80m 04=40m 05=30m		neasured value of the TCXO reference was at last calibration etc.
Transmitter WSPR Band Cycle Cor  The configuration has an active configuration has a configura	guration in RAM and a	* Band number definitions 00=2190m 01=630m 02=160m 03=80m 05=30m 05=30m 06=20m		neasured value of the TCXO reference was at last calibration etc.
Transmitter WSPR Band Cycle Cor  The configuration has an active configuration has a configura	guration in RAM and a	* Band number definitions  00=2190m  01=630m  02=160m  03=80m  04=40m  05=30m  06=20m  07=17m		neasured value of the TCXO reference was at last calibration etc.
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