1012 WSPR-TX_Desktop Serial API

PC User config Set or Get commands

User config is sent by the PC configuration software

Description	Send	Set/Get	Data [8..]	Data	
Cmd CurrentMode	[CCM]	S/G	Text 1 S=Sig, W=WSPR, N=None		
Cmd User Config Store in EEPROM	[CSE]	S			
Opt TX Pause	[OTP]	S/G	Text 5 0-99999 Minutes		
Opt StartMode	[OSM]	S/G	Text 1 S=Sig, W=WSPR, N=None		
Opt Band TX Enable	[OBD]	S/G	Text 2+space+Text 1 . Text2=Band Enum. Text1 E/D E=Enable, D=Disable		
Opt Location	[OLC]	S/G	Text 1. G=GPS calculated, M=Manual (DL4 data)		
Dat CallSign	[DCS]	S/G	Text 6		
Dat Locator 4	[DL4]	S/G	Text 4		
Dat PowerData	[DPD]	S/G	Text 2 (00 to 60) dBm		
Dat Name	[DNM]	G	Text 40	Not implemented	
Dat Generator Freq	[DGF]	S/G	Text 12 (000000000000 to 999999999999)Centi Hertz		

PC Factory config Set or Get commands

Factory data is sent by the PC Factory configuration software

Description	Send	Set/Get	Data [8..]	Data	
Factory Product model Number	[FPN]	G	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		
Factory Software Version	[FSV]	G	Text 3 0-255		
Factory Software Revision	[FSR]	S/G	Text 3 0-255		
Factory Reference Oscillator Frequency	[FRF]	S/G	Text 9 (000000000 to 999999999)Hz	Normally 026000000	
Factory Low Pass Filter installed	[FLP]	S/G	Text 1+space+Text 2. Text1=A,B,C or D for LP bank. Text2=00 to 15 for band. 98=just a link between input and output, 99=Nothing fitted (open circut) the firmware will never use this		
Cmd FactoryConfig Store in EEPROM	[FSE]	S			

Arduino replies for Get commands

Replies from the Arduino in respons to a User config or Factory config Get query

Description	Return		Data	Data	
Cmd CurrentMode	{CCM}		Text 1 S=Sig, W=WSPR, N=None		
Opt TX Pause	{OTP}		Text 5 0-99999 Minutes		
Opt StartMode	{OSM}		Text 1 S=Sig, W=WSPR, N=None		
Opt Band TX Enable	{OBD}		Text 2 Enum band	Text 1 E=Enable, D=Disable	
Opt Location	{OLC}		Text 1. G=GPS calculated, M=Manual (DL4 data)		
Dat CallSign	{DCS}		Text 6		
Dat Locator 4	{DL4}		Text 4		
Dat PowerData	{DPD}		Text 2 (00 to 60) dBm		
Dat Name	{DNM}		Text 40		
Dat Generator Freq	{DGF}		Text 12 (000000000000 to 999999999999)mHz		

Arduino Status update messages (Can be sent at anytime, they are not in respons to a get command query)

These messages are sent whenever the Arduino thinks it's appropriate

Description	Return		Data	Data	
Current Mode	{CCM}		Text 1 S=Sig, W=WSPR, N=None		
GPS locator	{GL4}		Text 4		
GPS Time	{GTM}		Text 8 HH:MM:SS		
GPS Lock	{GLC}		Text 1 T=True F=False		

Transmitter Frequency	{TFQ}			Text 5-12 0-terminated deciHz							
Transmitter On	{TON}			Text 1 T=True F=False							
Microcontroller Paus	{MPS}			Text 7 0-4,000,000Seconds							
Microcontroller Information	{MIN}			Text							