

1012 WSPR-TX_Desktop Serial API

PC User config Set or Get commands

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	
Debug Set LP Filter	{CSL}	S	Text 1. Text1=A,B,C or D for LP bank.	LP filters are automatically set by the WSPR Beacon and Signal Gen. routines but can be temporarily overridden by this command for testing purposes

PC Factory config Set or Get commands

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}	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 circuit) the firmware will never use this	
Cmd FactoryConfig Store in EEPROM	{FSE}	S		

Arduino replies for Get commands

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)

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 centiHz	
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	