

TM-D700A Serial Port Commands		
Notation	Definition	
s	[0 1] = [OFF ON] = [DISABLE ENABLE] = [FALSE TRUE]	
b	[A B] = [Bank-A Bank-B] = [LEFT RIGHT]	
n..n	Number as defined	
xyz	Series as defined	
str	String of characters as defined	
soft	Emulation via the serial port of a keypad input	
port	A function/action initiated only via the serial port	
1-1-1..4-4-3	Emulation via the serial port of a Menu function input	
Response from radio	Command Syntax:	
	Commands may be entered in upper or lower case	
N	Input recognized but parameters not correct	
?	Input not recognized	
[COMMAND]	Input accepted	
Command	Description	Menu
ABC s	Get/Set Automatic Band Change; [OFF ON]	soft
ABLG str	APRS Bulletin Group; str = [string], 0-29 characters	3-0
AD s	Get/Set Auto Display Dim; [OFF ON]	1-1-4
AG b,n	Get/Set Volume Setting; b = [A B], n = 0-3F = off to full cw	port
AI s	Get/Set Output data to serial port; [OFF ON]	port
AIP s	Get/Set Advanced Intercept Point; [OFF ON]	1-3-5
AMGG str	APRS MSG Group; str = [string], 0-59 characters	3-P
AMR s	Get/Set APRS Auto Message reply; [OFF ON]	3-M
AMSG nn	UNKNOWN; Recognized command but unknown input structure	
APO n	Get/Set Auto Power Off; n = 0:OFF, 1:30 MIN, 2:60 MIN	1-9-3
ARL nnnn	Get/Set Position Limit; nnnn = 0000:OFF, nnnn:KM	3-7
ARLM str	Auto Reply Message; str = [string], 0-64 characters	3-N
ARO s	Get/Set Auto Repeater Offset; [OFF ON]	1-7-2
ASC b,s	Get/Set Auto Simplex Check [A B], [OFF ON]	soft
BC x,y	Get/Set Band TX and Control; 0,0:[A = TX & CT] 0,1:[B = TX A = CT] 1,0:[A = TX, B = CT] 1,1:[B = TX & CT]	soft

BCN s	Get/Set Beacon mode; [OFF ON]	soft
BEP s	Get/Set Key Beep; [OFF ON]	1-2-2
BEPT n	Get/Set Beep on APRS messages; 0:OFF, 1:MINE, 2:ALL NEW, 3:ALL	3-F
BUF b,xyz	Get/Set [A B] Frequency and Parameters xyz = ccc,ffffffffffff,s,h,r,t,c,d,nn,dddd,cc,oooooooooo,a,l b = [0/1]----- bank; 0:A, 1:B c = [001]----- memory channel number; 001-200, L0-L9, U0-U9 f = [00146520000]-- frequency in Hz; 11 digits s = [0-9]----- frequency tuning step; (see 'ST' for values) h = [0]----- offset direction; 0:none , 1:plus , 2:minus r = [0/1]----- reverse; [OFF ON] t = [0/1]----- tone; [OFF ON] c = [0/1]----- ctcss; [OFF ON] d = [0/1]----- dcs; [OFF ON] n = [00]----- tone index; (see 'TN' for values) d = [0000]----- dcs index; (see 'DCSN' for values) c = [00]----- ctcss index; (see 'CTN' for values) o = [000600000]---- offset frequency in Hz; 9 digits a = [0/1]----- AM/FM; 0:FM, 1:AM l = [0/1]----- lockout; [OFF ON]	port
BVOL n	Get/Set Beep Volume; n = 0:off to 7:maximum	1-2-1
BY b,s	Get Squelch value; b = [A B], y = 0:closed, 1:open	port
CH s	Get/Set Channel Display Mode, [OFF ON]	1-4-2
CIN ccc	Copies current VFO values to Call Channel; ccc = channel number Same as C-IN key - CAUTION: This is an IMMEDIATE command	soft
CKEY s	Get/Set CALL key function; 0:CALL, 1:1750 Hz tone	1-7-3
CNT nn cnt	Get/Set LCD Contrast; nn = 00:light to 16:dark	1-1-2
CP n	Get/Set COM port bit rate; n = 0:9600, 1:19200, 2:38400, 3:57600	1-9-5
CR b,n CW xyz cr 0,0	Get [A B] Call Channel Frequency and Parameters: Set [A B] Call Channel Frequency and Parameters: xyz = b,p,ffffffffffff,s,h,r,t,c,d,nn,dddd,cc,oooooooooo,a where: p = 0 b = [0]----- bank; [A B] p = [0]----- main memory f = [00146520000]-- frequency in Hz; 11 digits s = [0-9]----- frequency tuning step; (see 'ST' for values) h = [0]----- offset direction; 0:none , 1:plus , 2:minus r = [0/1]----- reverse; [OFF ON] t = [0/1]----- tone; [OFF ON] c = [0/1]----- ctcss; [OFF ON] d = [0/1]----- dcs; [OFF ON] n = [00]----- tone index; (see 'TN' for values) d = [0000]----- dcs index; (see 'DCSN' for values) c = [00]----- ctcss index; (see 'CTN' for values) o = [000600000]---- offset frequency in Hz; 9 digits	port

	a = [0/1]----- AM/FM; 0:FM, 1:AM where: p = 1 b = [0]----- bank; [A B] p = [1]----- odd-split memory f = [00146520000]-- frequency in Hz; 11 digits s = [0-9]----- frequency tuning step; (see 'ST' for values)	
CT s	Get/Set CTCSS Enable; [OFF ON]	port
CTD b,y	Get CTD Carrier Tone Detect; b = [A B], y = 0:none, 1:detected	port
CTN nn	Get/Set CTCSS Tone; nn = tone value index 01-39 See 'TN' for values	soft
DATE yymmdd	Get/Set Date; yy = year, mm = month, dd = day	1-6-4
DATP n	Get/Set Data Speed; n = 0:1200, 1:9600	1-9-6
DCS s	Get/Set DCS tone; [OFF ON]	soft
DCSN nnnn	Get/Set DCS code index; index = 0010 = DCS code 023 thru 1040 = DCS code 754 0010:023 0190:116 0370:225 0550:325 0730:452 0910:627 0020:025 0200:122 0380:226 0560:331 0740:454 0920:631 0030:026 0210:125 0390:243 0570:332 0750:455 0930:632 0040:031 0220:131 0400:244 0580:343 0760:462 0940:354 0050:032 0230:132 0410:245 0590:346 0770:464 0950:662 0060:036 0240:134 0420:246 0600:351 0780:465 0960:664 0070:043 0250:143 0430:251 0610:356 0790:466 0970:703 0080:047 0260:145 0440:252 0620:364 0800:503 0980:712 0090:051 0270:152 0450:255 0630:365 0810:506 0990:723 0100:053 0280:155 0460:261 0640:371 0820:516 1000:731 0110:054 0290:156 0470:263 0650:411 0830:523 1010:732 0120:065 0300:162 0480:265 0660:412 0840:526 1020:734 0130:071 0310:165 0490:266 0670:413 0850:532 1030:743 0140:072 0320:172 0500:271 0680:423 0860:546 1040:754 0150:073 0330:174 0510:274 0690:431 0870:565 0160:074 0340:205 0520:306 0700:432 0880:606 0170:114 0350:212 0530:311 0710:445 0890:612 0180:115 0360:223 0540:315 0720:446 0900:624	port
DIG s	Get/Set APRS digipeater; [OFF ON]	3-K
DIM n	Get/Set Backlight Control; n = 0:off, 1:bright to 4:dim	soft
DL n	Get/Set Dual Band; n = 0:A or B, 1:A and B are active	soft
DM cc,n..n dm 00	Get/Set DTMF Channel memory; cc = channel number 00-09, n..n = up to 16 digits	1-5-1
DMN cc,str dmn 00	Get/Set DTMF Channel Name; cc = channel number 00-09, str = [string] 0-8 characters	1-5-1
DS s	Get/Set DCD Sense; s = 0:DATA (RX) BAND, 1:A AND B BANDS	1-6-2
DTB b	Get/Set Data Band; [A B]	1-6-1
DTBA n	Get/Set APRS data band; n = 0:A, 1:B, 2:A-TX B-RX, 3:A-RX B-TX	3-I
DTM s	Get/Set DTMF Monitor; [OFF ON]	1-8-6
DTX n	Get/Set APRS Data TX mode; n = 0:MANUAL, 1:PTT, 2:AUTO	3-C
DW	Decrement memory channel or frequency step; IMMEDIATE command	soft

FL	Get list of BAND limits; [FL] returns; 00118,00135,00136,00199,00136,00174,00200,00299,00300, 00399,00300,00399,00400,00523,00400,00469,00800,01299	port
FQ	Returns selected band frequency [00000000000], and step size 0-9	port
FUNC n	Get/Set Multi-Function Mode Button; n = 1:MODE1, 2:MODE2, 3:MODE3	1-1-5
GC	UNKNOWN; Recognized command but unknown input structure	
GM	UNKNOWN; Recognized command but unknown input structure	
GU n	Get/Set GPS Unit; n = 0:NOT USED, 1:NMEA, GPS 2:NMEA96	3-2
ICO x,y	Get/Set APRS Icon; x = 0 then y = index to built in icons 0-15, x = 1 then y = index to APRS icon table	3-8
ID	Get Radio ID; returns 'TM-D700'	port
KILO n	Get/Set APRS unit of measure; n = 0:Mile, 1:km	3-G
LAN	UNKNOWN; Recognized command but unknown input structure	
LIST nn list 01	List message number [mn] returns; mn,cl,dt,tm,st,lt,ln,ic,ie,mt,dt,ms,cs mn = [nn]----- message number; nn = 01-40 cl = [MYCALL-10]---- callsign dt = [mmdd]----- date; mm = month, dd = day tm = [hhmm]----- time; hh = hour, mm = minute st = [a]----- station type; a = ascii character ?? lt = [ttttttx]----- latitude; x = 0:N, 1:S ln = [nnnnnnnx]----- longitude; x = 0:E, 1:W ic = [0]----- icon; ie = [0]----- icon ext; mt = [00]----- message type; dt = [000000000000]- data; ms = [str]----- message; cs = [000000000000]- course,speed,altitude??;	soft
LK n	Get/Set Radio Keypad Lock; n = 0:no lock, 1:transceiver keys, 2:all functions accept receive	soft
MAC n	Get/Set SSTV My Call Color; n = color 0:BLACK 2:RED 4:GREEN 6:YELLOW 1:BLUE 3:MAGENTA 5:CYAN 7:WHITE	2-2
MC b,nnn	Get/Set Memory Channel on band [A B]; nnn = channel number	soft
MCL b,s	Get/Set Memory Channel lockout; [A B], [OFF ON]	1-4-3
MCNT s	Get/Set Mic Control; [OFF ON]	1-8-5
MD s	Get/Set FM AM; s = 0:FM, 1:AM (decimal point elongates D700)	1-3-4
MES str	Get/Set Power On Message; str = [string], 0-8 characters	1-1-1
MHZ	Get MHZ Switch position; [OFF ON]	soft
MIN ccc	Copies current VFO values to Memory Channel; ccc = channel number Same as M-IN key - CAUTION This is an IMMEDIATE command	soft
MNA 0,n,str mna 0,001	Get/Set Memory Name; n = 001-200 L0-L9 U0-U9, str = [string] 0-8 characters	1-4-4

MON s	Get/Set Monitor Mode; [OFF ON] Open/Close Squelch	soft
MP n,xyz mp 1	Get/Set My Position; n = 1-5, xyz = ddmmmmnnDDDDMMMe dd = degrees latitude; DDD = degrees longitude; mm = minutes latitude; MM = minutes longitude; mm = decimal minutes latitude; MM = decimal minutes longitude; nn = north/south; 00:N, 01:S ee = east/west; 00:E, 01:W	3-4
MPNA n,str mpna 1	Get/Set My Position Name; n = 1-5, str = [string], 0-8 characters	3-4
MR xyz MW xyz mr 0,0,001	Get [A B] Frequency and Parameters: Set [A B] Frequency and Parameters: xyz = r,p,ccc,fffffffffff,s,h,r,t,c,d,nn,dddd,cc,ooooooooo,a,l where: p = 0 r = [0]----- required '0' p = [0]----- main memory c = [001]----- memory channel number; 001-200, L0-L9, U0-U9 f = [00146520000]-- frequency in Hz; 11 digits s = [0-9]----- frequency tuning step; (see 'ST' for values) h = [0]----- offset direction; 0:none , 1:plus , 2:minus r = [0/1]----- reverse; [OFF ON] t = [0/1]----- tone; [OFF ON] c = [0/1]----- ctcss; [OFF ON] d = [0/1]----- dcs; [OFF ON] n = [00]----- tone index; (see 'TN' for values) d = [0000]----- dcs index; (see 'DCSN' for values) c = [00]----- ctcss index; (see 'CTN' for values) o = [000600000]---- offset frequency in Hz; 9 digits a = [0/1]----- AM/FM; 0:FM, 1:AM l = [0/1]----- lockout; [OFF ON] where: p = 1 r = [0]----- required '0' p = [1]----- odd-split memory c = [001]----- memory channel number; 001-200, L0-L9, U0-U9 f = [00146520000]-- frequency in Hz; 11 digits s = [0-9]----- frequency tuning step; (see 'ST' for values)	port
MSH	Copy Memory to VFO; same as M>V key CAUTION This is an IMMEDIATE command	soft
MUTE s	Get/Set Mute; [OFF ON]	soft
MYA	UNKNOWN; Recognized command but unknown input structure	
MYC str	Get/Set APRS Callsign; str = [string], 0-9 characters	3-1
NAR x,y nar 0	Get/Set TX/RX deviation, x = [A B], y = [OFF ON] ???	port
NMSG	UNKNOWN; Recognized command but unknown input structure	
NP s	Get/Set LCD screen; s = 0:POSITIVE, 1:NEGATIVE	1-1-3
OS nnnn	Get/Set Repeater Offset; nnnn = 9 full digits	1-7-1

PAMB n	Get/Set Position Ambiguity; n = 0:OFF, 1:1 DIGIT, 2:2 DIGITS, 3:3 DIGITS, 4:4 DIGITS	3-5
PC b,n	Get/Set Power Control; [A B], n = 0:high, 1:medium, 2:low [PC 0] Gets Band A power setting [PC 1,2] Sets Band B power to low [L]	soft
PF x,yy pf 1	Mic Programmable Function Keys; x = key (1-4), yy = selection 00:Power 09:MR 18:A.B.C 27:Dim 01:A/B 10:CALL 19:M>V 28:Sub-Band Sel 02:Monitor 11:MHz 20:M.In 29:DX 03:Enter 12:Tone 21:C.In 30:TNC 04:Voice 13:Rev 22:Lock 31:List 05:1750 14:Low 23:T.Sel 32:P.Mon 06:PM 15:Mute 24:Shift 33:BCon 07:Menu 16:Ctrl 25:Step 34:Msg 08:VFO 17:PM.In 26:Visual 35:Pos	1-8-1 1-8-2 1-8-3 1-8-4
PIN n	Copy current settings to PM Channel 'n'; Same as P-IN key CAUTION This is an IMMEDIATE command	soft
PKSA s	Get/Set APRS packet speed; s = 0:1200 bps, 1:9600 bps	3-J
PM n	Get/Set Programmable Memory to n channel; n = 0:off, 1-5:channel	soft
PMM n	Get/Set Auto PM store; n = 0:ON, 1:OFF	1-4-1
POSC nn	Get/Set Position Comment; nn = selection 00:Off Duty 05:Special 10:Custom 3 01:Enroute 06:Priority 11:Custom 4 02:In Service 07:Custom 0 12:Custom 5 03:Returning 08:Custom 1 13:Custom 6 04:Committed 09:Custom 2 14:Emergency !	3-6
POSF	UNKNOWN; Recognized command but unknown input structure	
PP str	Get/Set APRS Packet Path; str = [string], 0-79 characters	3-B
PS	Get/Set Power Switch; [OFF ON] (can only turn off)	soft
PT n	Get/Set DTMF Transmit pause; n = 0:100 ms, 1:200 ms, 2:500 ms, 3:750 ms, 4:1000 ms, 5:1500 ms, 6:2000 ms	1-5-3
PV n,x,y pv 1	Get/Set Programmable VFO; n = vfo band number, x = lower MHz frequency limit, y = upper MHz frequency limit Example Default Settings: [PV 1,00118,00135] [PV 4,00200,00299] [PV 7,00400,00523] [PV 2,00136,00199] [PV 5,00300,00399] [PV 8,00400,00469] [PV 3,00136,00174] [PV 6,00300,00399] [PV 9,00800,01299]	1-3-1
RBN n	VFO Subband selection - by active VFO A B; Band 'A' active; 1:118, 2:144, 4:220, 6:300, 8:440 Band 'B' active; 3:144, 5:300, 7:440, 9:1240	soft
RC s	Get/Set Remote Control; [OFF ON]	1-A-3
RCA s	Get/Set Remote Control Answer Back; [OFF ON]	1-A-2
RCC nnn	Get/Set Remote Control Code; nnn = 000-999	1-A-1

REP n	Get/Set Repeater, n = 0:OFF; 1:LOCKED-BAND, 2:CROSS-BAND	1-7-6
REPH s	Get/Set Repeater Hold; [OFF ON]	1-7-5
REV s	Get/Set REVERSE mode; [OFF ON]	soft
RSC n	Get/Set SSTV RSV Text Color; n = color 0:BLACK 2:RED 4:GREEN 6:YELLOW 1:BLUE 3:MAGENTA 5:CYAN 7:WHITE	2-6
RSV str	Get/Set RSV message; str = [string], 0-10 characters	2-5
RX	Set Receive Mode; This is an IMMEDIATE command	port
SC s	Get/Set Scan Mode; [STOP START]	soft
SCC str	Get/Set Sky Commander Callsign; str = [string], 0-9 characters	4-1
SCR n	Get/Set Scan Resume mode; n = 0:TIME, 1:CARRIER, 2:SEEK	1-9-1
SCT str	Sky Command Transporter Callsign; str = [string], 0-9 characters	4-2
SFT n	Get/Set Repeater Shift; n = 0:None, 1:minus, 2:plus	soft
SHT n	Get/Set Squelch hang time; n = 0:OFF, 1:125 ms, 2:250 ms, 3:500 ms	1-3-3
SKTN nn	Get/Set Sky Command CTCSS Tone; nn = tone value index 01-39 See 'TN' for values	4-3
SM b,nn	Get Recieved signal strength on band [A B]; nn = 00-07 ???	port
SMC n	Get/Set SSTV Message Color; n = color 0:BLACK 2:RED 4:GREEN 6:YELLOW 1:BLUE 3:MAGENTA 5:CYAN 7:WHITE	2-4
SMSG str	Get/Set SSTV Message; str = [string], 0-9 characters	2-3
SMY str	Get/Set SSTV Callsign; str = [string], 0-8 characters	2-1
SPD	UNKNOWN; Recognized command but unknown input structure	
SQ b,nn	Get/Set Squelch; [A B], nn = 00:minimum to 1F:maximum	soft
SR 1	*** WARNING THIS IS THE SYSTEM MASTER RESET ***	1-9-7
SSEL n	Get/Set Speaker Mode; n = 1:MODE1, 2:MODE2	1-2-3
SSL b,nn	Get S-meter squelch setting; [A B], nn = 00:minimum to 1F:maximum	port
SSQ b,s	Get/Set S-Meter Squelch; [A B], [ON OFF]	1-3-2
ST n	Get/Set Frequency Step Size in kHz; n = 0:5, 1:6.25, 2:10, 3:12.5, 4:15, 5:20, 6:25, 7:30, 8:50, 9:100	soft
STAT n,str stat 1	Get/Set APRS Status Text; n = 1-5, str = [string], 0-28 characters	3-9
STC	SSTV ?	
STM	SSTV ?	
STP	SSTV ?	
STR	SSTV ?	

STS	SSTV ?	
STT	SSTV ?	
STXR n	Get/Set Status TX Rate, every nth packet; n = 0:OFF to 8:1/8	3-A
TC s	Entering [TC 1] returns; TS 1, needs more evaluation	
TEMP s	APRS Temperature Units; 0 = F, 1 = C	3-H
TH s	TX Hold; [OFF ON]	1-7-4
TIME hhmm	Get/Set Time; hh = hours, mm = minutes	1-6-3
TN nn	Get/Set PL Tone; nn = tone value index 01-39 01:67.0 09:91.5 17:118.8 25:156.7 33:210.7 02:71.9 10:94.8 18:123.0 26:162.2 34:218.1 03:74.4 11:97.4 19:127.3 27:167.9 35:225.7 04:77.0 12:100.0 20:131.8 28:173.8 36:233.6 05:79.7 13:103.5 21:136.5 29:179.9 37:241.8 06:82.5 14:107.2 22:141.3 30:186.2 38:250.3 07:85.4 15:110.9 23:146.2 31:192.8 08:88.5 16:114.8 24:151.4 32:203.5	soft
TNC n	Get/Set TNC; n = 0:off, 1:APRS, 2:Packet	soft
TO s	Get/Set PL Tone; [OFF ON]	soft
TOT n	Get/Set PTT timeout, minutes; n = 0:3 min, 1:5 min, 2:10 min	1-9-4
TSP n	Get/Set DTMF Transmission Speed; n = 0:SLOW, 1:FAST	1-5-2
TT s	Get/Set 1750 Mhz tone; [OFF ON] ??? WARNING IMMEDIATE TX	
TX s	Set Transmit Mode, [A B] - WARNING IMMEDIATE TX	soft
TXI n	Get/Set APRS TX interval; n = 0:0.5 min, 1:1 min, 2:2 min, 3:3 min, 4:5 min, 5:10 min, 6:20 min, 7:30 min	3-D
TYD	UNKNOWN; [TYD] returns TYD 1,2,0F,1,,1	
TZ nn	Get/Set Time Zone, 30 minute intervals; nn = 00-48 (-12 - +12)	1-6-5
UDIG nnn	UIDIGI path	3-L
ULC x,y ulc 0	UNKNOWN; [ULC 0] returns ULC 0,1 - [ULC 1] returns ULC 1,1	
UMC b,n	Get/Set [A B] Operating mode; n = 0:VFO, 2:MR, 3:CALL	soft
UMSG n	Get/Set Use Status Message [n], n = 1-5	soft
UP	Increment memory channel or frequency step; IMMEDIATE mode command	soft
UPOS	UNKNOWN; [UPOS] returns UPOS 1	
UPR str	Get/Set Unproto Message; str = [string], 0-9 characters Example: [UPR APK101]	3-E
VCS s	Get/Set SSTV VC Shutter; [OFF ON]	

VMC b,n	Get/Set Band Mode; [A B] n = 0:vfo, 2:memory, 3:call	soft
VO	UNKNOWN; Recognized command but unknown input structure	
VOM	UNKNOWN; Voice Synthesizer? - [VOM] returns VOM 0	1-2-4
VR n VW n,xyz	Get [n] Programmable VFO Frequency and Parameters: Set [n,xyz] Programmable VFO Frequency and Parameters: xyz = n,fffffffffff,s,h,r,t,c,d,nn,dddd,cc,ooooooooo,a n = [0/1]----- VFO bank number; n = 1-9 f = [00146520000]-- frequency in Hz; 11 digits s = [0-9]----- frequency tuning step; (see 'ST' for values) h = [0]----- offset direction; 0:none , 1:plus , 2:minus r = [0/1]----- reverse; [OFF ON] t = [0/1]----- tone; [OFF ON] c = [0/1]----- ctcss; [OFF ON] d = [0/1]----- dcs; [OFF ON] n = [00]----- tone index; (see 'TN' for values) d = [0000]----- dcs index; (see 'DCSN' for values) c = [00]----- ctcss index; (see 'CTN' for values) o = [000600000]---- offset frequency in Hz; 9 digits a = [0/1]----- AM/FM; 0:FM, 1:AM	port
VS3	Voice Synthesizer present? [VS3] returns VS3 0	
VSC s	Get/Set Visual Scan; [OFF ON]	soft
VSL xxx,y	Visual scan output; xxx = scan step count, y = signal strength	port
VSM n	Get/Set Visual Scan Mode, number of steps in scan; n = 1:Mode1 31 Ch, 2:Mode2 61 Ch, 3:Mode3 91 Ch, 4:Mode4 181 Ch	1-9-2
VVOL n	Get/Set Voice Synthesizer Volume; n = 0:min to 7:max?	1-2-5
WAY n	Get/Set Waypoint Reporting format; n = 0:off, 1:6 DIGITS NEMA 3:8 DIGITS NEMA 5:6 DIGITS MAGELLAN 2:7 DIGITS NEMA 4:9 DIGITS NEMA 6:DGPS	3-3
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