USRobotics HST Dual Standard Online Reference

by Tom Slick

Have you ever been frustrated by the fact that you cannot view your modems built in help screens while online? Here's one answer to that problem.

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These settings work well for me.
Be sure to set your port to at least 38,400 for best results.
These are set for X-on X-off flow control, for hardware handshake you will need the appropriate cable plus set &H1 and possibly the &I and &R settings may need adjustment.

Where defaults are indicated in the quick reference card I have marked them here with either ** or have enclosed the default value in [brackets]
USR seems to update the defaults from time to time so yours may vary, these are the defaults listed for my 14400 HST DS with v32.bis

If you see some room for improvement in the settings please pass them on.

USRobotics Courier 14400 HST Dual Standard Settings...

B1 C1 E1 F1 M1 Q0 V1 X6
BAUD=38400 PARITY=N WORDLEN=8
DIAL=HUNT ON HOOK TIMER

&A3 &B1 &C1 &D2 &G0 &H2 &I5 &K3 &L0
&M4 &N0 &P0 &R1 &S0 &T5 &X0 &Y1 %R0

S00=000 S01=000 S02=043 S03=013 S04=010
S05=008 S06=002 S07=060 S08=002 S09=006
S10=007 S11=050 S12=050 S13=000 S14=001
S15=000 S16=000 S17=000 S18=000 S19=000
S20=000 S21=010 S22=017 S23=019 S24=150
S25=000 S26=001 S27=000 S28=008 S29=020
S30=000 S31=000 S32=001 S33=000 S34=000
S35=000 S36=000 S37=000 S38=000

LAST DIALED #: TDeathB4DOS

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at$ Gets you this help screen

HELP, Command Quick Reference (CTRL-S to Stop, CTRL-C to Cancel)

```
&$      HELP, Ampersand Commands          Kn   **n=0   Call Duration Mode
%$      HELP, Percent Commands                 n=1   Real Time Clock Mode
A/      Repeat Last Command               Mn     n=0   Speaker Off
A>      Continuously Repeat Command             **n=1   Speaker On Until CD
AT      Command Mode Prefix                    n=2   Speaker Always On
A       Answer Call                          n=3   Speaker Off During Dial
Bn      n=0   V32 Mode/CCITT Answer Seq On     n=0   Return Online
        n=1   HST Mode/Bell Answer Seq         n=1   Return Online & Retrain
Cn      n=0   Transmitter Off                 n=2   Return Online & Speed Shift
        n=1   Transmitter On              P      Pulse Dial
Dn      Dial a Telephone Number           Qn     n=0   Result Codes Sent
        n=0..9#*TPR,;"W@!()-                   n=1   Quiet (No Result Codes)
DL      Dial Last Phone Number                 n=2   Verbose/Quiet On Answer
DSn     Dial Stored Phone Number          Sr=n   Sets Register "r" to "n"
D$      HELP, Dial Commands               Sr?    Query Register "r"
En      n=0   No Command Echo              S$     HELP, S Registers
        n=1   Echo Command Chars          T      Tone Dial
Fn      n=0   Online Echo                 Vn     n=0   Numeric Responses
      **n=1   No Online Echo                   n=1   Verbal Responses
Hn   **n=0   On Hook (Hang Up)            Xn     n=0   Basic Result Codes
        n=1   Off Hook                         n=1   Extended Result Codes
In      n=0   Product Code                     n=2-7   Advanced Result Codes
        n=1   Checksum                    Z      Software Reset
        n=2   RAM Test                    >      Continuously Repeat Command
        n=3   Call Duration/Clock         +++    Escape Code
        n=4   Current Settings            $      HELP,   Command Summary
        n=5   NRAM Settings
        n=6   Link Diagnostics
        n=7   Product Configuration
```

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at&$   Gets you this help screen
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```
HELP, Ampersand Commands (CTRL-S to Stop, CTRL-C to Cancel)

&An     n=0   Disable /ARQ Result Codes    &Pn **n=0   N.American Pulse Dial
      **n=1   Enable /ARQ Result Codes           n=1   UK Pulse Dial
        n=2   Enable /Modulation Codes     &Rn     n=0   CTS Follows RTS
        n=3   Enable /Extra Result Codes          **n=1   Ignore RTS
&Bn **n=0   Floating DTE Speed                    n=2   RX to DTE/RTS high
        n=1   Fixed DTE Speed              &Sn **n=0   DSR Always On
        n=2   DTE Speed Fixed When ARQ             n=1   Modem Controls DSR
&Cn     n=0   CD Always On                         n=2   Pulse DSR, CTS=CD
        n=1   Modem Controls CD                    n=3   Pulse DSR
&Dn     n=0   Ignore DTR                   &Tn     n=0   End Test
        n=1   Reserved                           n=1   Analog Loopback (ALB)
        n=2   DTE Controls DTR                   n=3   Digital Loopback (DLB)
&F      Load Factory Configuration               n=4   Grant Remote DLB
&Gn **n=0   No Guard Tone                        n=5   Deny Remote DLB
        n=1   550 Hz Guard Tone                  n=6   Remote Digital Loopback
        n=2   1800 Hz Guard Tone                 n=7   Remote DLB With Self Test
&Hn **n=0   Disable TX Flow Control              n=8   ALB With Self Test
        n=1   CTS                          &W      Store Configuration
        n=2   Xon/Xoff                     &Xn **n=0   DCE Synchronous Clock
        n=3   CTS and Xon/Xoff                   n=1   DTE Synchronous Clock
&In **n=0   Disable RX Flow Control              n=2   RX Clock is Source
        n=1   Xon/Xoff                     &Yn     n=0   Destructive
        n=2   Xon/Xoff Chars Filtered           **n=1   Destructive/Expedited
        n=3   HP Enq/Ack Host Mode               n=2   Nondest./Expedited
        n=4   HP Enq/Ack Terminal Mode           n=3   Nondest./Unexpedited
        n=5   Xon/Xoff for non-ARQ Mode    &Zn=s Store Phone Number
```

```
&Kn     n=0   Disable Data Compression      &Zn=L Store Last Phone Number
      **n=1   Auto Data Compression         &Zn?   Query Phone Number
        n=2   Enable Data Compression
        n=3   Selective Data Compression
&Ln **n=0   Disable Leased Line
        n=1   Enable Leased Line
&Mn     n=0   Normal Mode
        n=1   Synchronous Mode
      **n=4   ARQ/Normal Mode
        n=5   ARQ Mode
&Nn **n=0   Highest Link Speed
        n=1   300 bps
        n=2   1200 bps
        n=3   2400 bps
        n=4   4800 bps
        n=5   7200 bps
        n=6   9600 bps
        n=7   12000 bps
        n=8   14400 bps
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at%$   Gets you this help screen

HELP, Percent Commands (CTRL-S to Stop, CTRL-C to Cancel)

%Rn     n=0   Disable RCU link request      %T      Touch Tone recognition
        n=1   Enable RCU link request
```

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atd$   Gets you this help screen

HELP, Dial Commands (CTRL-S to Stop, CTRL-C to Cancel)

0-9 Digits to Dial
*     Auxiliary Tone Dial Digit
#     Auxiliary Tone Dial Digit
T     Tone Dialing
P     Pulse Dialing
R     Call an Originate Only Modem
,     Pause (Wait for S8 Time)
;     Remain in Command Mode After Dialing
"     Used to Dial Alpha Phone #'s
W     Wait for 2nd Dial Tone (X3-X7)
@     Wait for an Answer (X3-X7)
!     Flash Switch Hook
```

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ats$   Gets you this help screen   Defaults are in [Brackets]

HELP, S Register Functions (CTRL-S to Stop, CTRL-C to Cancel)

S0   Ring to Answer On                [1]     S20 Reserved
S1   Counts # of Rings                [0]     S21 Break Length (1/100sec)       [10]
S2   Escape Code Char                 [43]    S22 Xon Char                      [17]
S3   Carriage Return Char             [13]    S23 Xoff Char                     [19]
S4   Line Feed Char                   [10]    S24 DSR Pulse Time (1/50sec)      [150]
S5   Backspace Char                   [8]     S25 Reserved
S6   Wait Time/Dial Tone (sec)        [2]     S26 RTS/CTS Delay Time (1/100sec) [1]
S7   Wait Time/Carrier (sec)          [60]    S27 Bit Mapped                    [0]
```

S8 Comma Time (sec) [2]
S9 Carrier Detect Time (1/10sec) [6]
S10 Carrier Loss Time (1/10sec) [7]
S11 Dial Tone Spacing (msec) [70]
S12 Escape Code Time (1/50sec) [50]
S13 Bit Mapped [0]
1 = Reset On DTR Loss
2 = Do Originate in Auto Answer
4 = No Pause Before Result Codes
8 = Do DS0 On DTR
16 = Do DS0 On Reset
32 = Disable HST
64 = Disable MNP Level 3
128 = Hardware Reset
S14 Reserved
S15 Bit Mapped [0]
1 = Disable High-Freq EQ
2 = Disable Online Fallback
4 = Disable 450 bps Back Channel
8 = Reduced Non-ARQ TX Buffer
16 = Disable MNP Level 4
32 = Set DEL=Backspace
64 = Unusual MNP-Incompatibility
128 = Custom Applications
S16 Test Modes [0]
1 = Analog Loopback
2 = Dial Test
4 = Test Pattern
8 = Remote Digital Loopback
16 = Reserved
32 = Reserved
64 = Reserved
128 = Reserved
S17 Reserved
S18 &Tn Test Timeout (sec) [0]
S19 Inactivity Timeout (min) [0]
1 = V21 Mode
2 = Disable TCM
4 = Disable V32
8 = Disable 2100hz
16 = Disable MNP Handshake
32 = Disable V.42 Detect Phase
64 = Reserved
128 = Unusual SW-Incompatibility
S28 V32 Handshake Time (1/10sec) [8]
S29 Reserved
S30 Reserved
S31 Reserved
S32 Talk/Data Switch [1]
0 = Disabled
1 = Originate Mode
2 = Answer Mode
3 = Redial Last Number
4 = Dial Stored Number 0
5 = Auto Answer Toggle
6 = Reset Modem
7 = Initiate RDL
8 = Busy Toggle
S33 Reserved
S34 Bit Mapped [0]
1 = Disable V32bis
2 = Disable Enhanced V32 mode
4 = Disable Quick V32 retrain
8 = Enable V23 Fallback
16 = Change MR to DSR
32 = Enable MI/MIC
64 = Reserved
128 = Reserved
S35 Reserved
S36 Reserved
S37 Reserved
S38 Disconnect Wait Time (sec) [0]