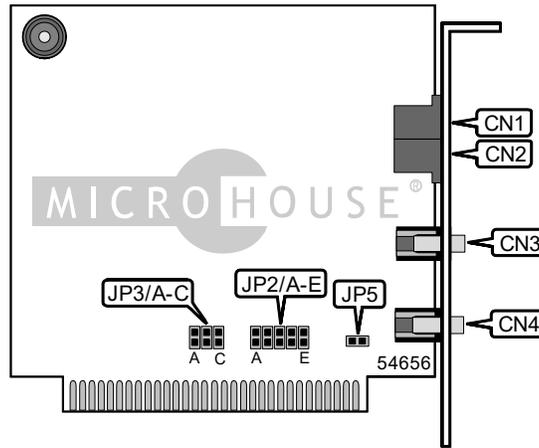


# MAXTECH CORPORATION XPVS T2 (SF-1133HV/T2)

<b>Card Type</b>	Modem (asynchronous)
<b>Chip Set</b>	Unidentified
<b>I/O Options</b>	Microphone, speaker out, line in, line out
<b>Maximum Modem Rate</b>	33.6Kbps
<b>Maximum Fax Rate</b>	14.4Kbps
<b>Data Modulation Protocol</b>	Bell 103/212A
	ITU-T V.21, V.22, V.22bis, V.23, V.32, V.32bis, V.34, V.34+, V.FC
<b>Fax Modulation Protocol</b>	ITU-T V.17, V.27ter, V.29
<b>Error Correction/Compression</b>	MNP5, V.42, V.42bis
<b>Fax Class</b>	Class I
<b>Data Bus</b>	8-bit ISA
<b>Card Size</b>	Half-length, half-height card



CONNECTIONS			
Function	Label	Function	Label
Line out	CN1	Microphone	CN3
Line in	CN2	Speaker out	CN4

USER CONFIGURABLE SETTINGS		
Setting	Label	Position
Speaker type stereo	JP5	Closed
Speaker type mono	JP5	Open

SERIAL PORT ADDRESS			
Setting	JP3/A	JP3/B	JP3/C
COM1 (3F8h)	Closed	Closed	Closed
COM2 (2F8h)	Open	Closed	Closed
COM3 (3E8h)	Closed	Open	Closed
COM4 (2E8h)	Open	Open	Closed
PnP	Open	Open	Open

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INTERRUPT SELECTION					
IRQ	JP2/A	JP2/B	JP2/C	JP2/D	JP2/E
2/9	Closed	Open	Open	Open	Open
3	Open	Closed	Open	Open	Open
4	Open	Open	Closed	Open	Open
5	Open	Open	Open	Closed	Open
7	Open	Open	Open	Open	Closed
PnP	Open	Open	Open	Open	Open

SUPPORTED COMMAND SET
<b>Basic AT Commands</b>
AT, '+', A/
A, B, E, F, H, M, O, P, T, V, X
&C, &G, &T, &W, &Z
<b>S Registers</b>
S0, S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, S11, S12, S16, S18, S25
<b>Voice Commands</b>
#BDR, #CLS, #MDL, #MFR, #VBQ?, #VBS, #VBT, #VBT, #VCI, #VLS, #VLS, #VRA, #VRA, #VRN, #VRN, #VRX, #VSD, #VSD, #VSK, #VSK, #VSP, #VSP, #VSR, #VSR, #VSS, #VSS, #VTD, #VTD, #VTS, #VTX

**Proprietary AT Command Set**

DISPLAY COMMAND SET	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] \$ [cmds]
<b>Description:</b>	Displays basic command set

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DIAL	
<b>Type:</b>	Immediate
<b>Format:</b>	AT [cmds] D<#> [cmds]
<b>Description:</b>	Dials telephone number according to any modifiers included in the string
<b>Note:</b>	Any combination of modifiers can be used to produce the desired dial functions in sequence.
Command	Function
DL	Re-dial last number
DP	Pulse dialing enabled
DR	Reverse dial mode
DS=n	Dial stored telephone number <i>n</i>
DT	Tone dialing enabled/Pulse dialing disabled
DW	Dialing resumed following dial tone detection
D,	Dialing paused for amount of time specified in S8 register
D!	Flash function initiated. Modem commanded to go off-hook for specified time before returning on-hook.
D@	Wait for Quiet Answer function enabled. Modem waits until a "quiet answer," a ring-back signal followed by silence up to the time specified in S7, is received prior to executing the rest of the dial string.
D/	Delay 125 msec before dialing
D\$	Display dialing commands
D;	Modem returned to idle state after dialing. The semicolon can only be placed at the end of the dial command.

REPORT INFORMATION	
<b>Type:</b>	Immediate
<b>Format:</b>	AT [cmds] I <i>n</i> [cmds]
<b>Description:</b>	Displays information requested
Command	Function
I0	Reports modem model and speed
I1	Reports ROM checksum
I2	Tests and reports ROM checksum
I3	Reports product ID
I4	Reports current modem settings
I5	Reports active and stored profiles
I6	Reports link diagnostics
I7	Product configuration

SPEAKER VOLUME	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] L <i>n</i> [cmds]
<b>Description:</b>	Controls speaker volume
Command	Function
L0	Low volume setting
L1	Low volume setting
i L2	Medium volume setting
L3	Highest volume setting

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RESULT CODES	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] Qn [cmds]
<b>Description:</b>	Enables modem to send result codes to the DTE
<b>Command</b>	<b>Function</b>
í Q0	Modem sends responses
Q1	Modem does not send responses
Q2	Displays result codes only in Originate Mode

LONG SPACE DISCONNECT	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] Yn [cmds]
<b>Description:</b>	Commands the modem to disconnect after a 1.6 second break is detected
<b>Command</b>	<b>Function</b>
í Y0	Configuration profile 0 active upon power on or reset
Y1	Configuration profile 1 active upon power on or reset
Y2	Factory configuration 0 active upon power on or reset
Y3	Factory configuration 1 active upon power on or reset
Y4	Factory configuration 2 active upon power on or reset
Y6	Reports link diagnostics

SOFT RESET	
<b>Type:</b>	Immediate
<b>Format:</b>	AT [cmds] Zn [cmds]
<b>Description:</b>	Restores modem profiles previously saved in non-volatile RAM using the &W command.
<b>Command</b>	<b>Function</b>
Z0	Reset and retrieve active profiles set by the Y command
Z1	Reset and retrieve active profile 0
Z2	Reset and retrieve active profile 1
Z3	Reset and retrieve factory default profile 0
Z4	Reset and retrieve factory default profile 1
Z5	Reset and retrieve factory default profile 2

ARQ RESULT CODES	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] &An [cmds]
<b>Description:</b>	Selects ARQ result code settings
<b>Command</b>	<b>Function</b>
&A0	Disable ARQ result codes
&A1	Enable ARQ result codes
&A2	Disable ARQ result codes and V.32 modulation
í &A3	Enable ARQ result codes and error correction and data compression protocols

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DTE RATE	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] &Bn [cmds]
<b>Description:</b>	Controls DTE rate
<b>Command</b>	<b>Function</b>
&B0	DTE rate adjust to DCE rate after on-line
i &B1	Constant DTE rate
&B2	Constant DTE rate in ARQ mode, variable in non-ARQ mode

DATA TERMINAL READY (DTR)	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] &Dn [cmds]
<b>Description:</b>	Selects modem response to DTR
<b>Note:</b>	The action each variant of &D causes depends on the setting of &Q
<b>Command</b>	<b>Function</b>
i &D0	Modem does not respond to DTR
&D1	Modem goes to command mode after DTR goes is off
&D2	Modem hands up and returns to the command mode after DTR toggle

FACTORY DEFAULT PROFILE	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] &F [cmds]
<b>Description:</b>	Sets values in active profile to values found in the default profile
<b>Note:</b>	Used primarily for international data transmission
<b>Command</b>	<b>Function</b>
&F0	Recall factory default configuration 0
i &F1	Recall factory default configuration profile 1 (hardware flow control enabled)
&F2	Recall factory default configuration profile 2 (software flow control enabled)

TX FLOW	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] &Hn [cmds]
<b>Description:</b>	Controls TX flow settings
<b>Note:</b>	Used primarily for international data transmission
<b>Command</b>	<b>Function</b>
&H0	Disable TX flow control
i &H1	Enable hardware TX flow control (CTS)
&H2	Enable software TX flow control (XON/XOFF)
&H3	Enable hardware (CTS) and software (XON/XOFF) TX flow control

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## XPVS T2 (SF-1133HV/T2)

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RX FLOW	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] &In [cmds]
<b>Description:</b>	Controls RX flow settings
<b>Note:</b>	Used primarily for international data transmission
Command	Function
i &I0	Disable software RX flow control
&I1	Enable software RX flow control (XON/XOFF)
&I2	Enable software RX flow control (XON/XOFF), but do not pass XON/XOFF to remote modem or local DTE
&I3	Enable HP ENQ/ACK software flow control, host mode
&I4	Enable HP ENQ/ACK software flow control, terminal mode
&I5	Enable software RX flow control (XON/XOFF) for non-ARQ mode

COMPRESSION CONTROL	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] &Kn [cmds]
<b>Description:</b>	Enables compression control options
Command	Function
&K0	Disable V.42bis/MNP5 data compression
i &K1	Auto data compression
&K2	Enable V.42bis/MNP5 data compression
&K3	Disable MNP5 data compression

COMMUNICATIONS MODE	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] &Mn [cmds]
<b>Description:</b>	Selects communications mode
Command	Mode
&M0	Normal mode enabled
i &M4	ARQ and Normal modes enabled
&M5	ARQ mode enabled

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AUTOMODE CONNECTION SPEED	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] &N <i>n</i> [cmds]
<b>Description:</b>	Selects connection speed
Command	Mode
i &N0	Enable Automode
&N1	Set connection speed to 300bps
&N2	Set connection speed to 1200bps
&N3	Set connection speed to 2400bps
&N4	Set connection speed to 4800bps
&N5	Set connection speed to 7200bps
&N6	Set connection speed to 9600bps
&N7	Set connection speed to 12000bps
&N8	Set connection speed to 14400bps
&N9	Set connection speed to 16800bps
&N10	Set connection speed to 19200bps
&N11	Set connection speed to 21600bps
&N12	Set connection speed to 24400bps
&N13	Set connection speed to 26400bps
&N14	Set connection speed to 28800bps
&N15	Set connection speed to 31200bps
&N16	Set connection speed to 33600bps

PULSE DIALING RATIO	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] &P <i>n</i> [cmds]
<b>Description:</b>	Selects pulse dial make/break ratio
Command	Function
i &P0	39/61ms at 10pps (North America)
&P1	33/67ms at 10pps (Europe)

RTS/CTS	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] &R <i>n</i> [cmds]
<b>Description:</b>	Selects RTS/CTS options
Command	Function
&R0	Reserved
&R1	Modem ignores the RTS signal
i &R2	Enable RX hardware flow control (RTS)

DATA SET READY (DSR)	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] &S <i>n</i> [cmds]
<b>Description:</b>	Selects DSR options
Command	Function
i &S0	DSR forced high
&S1	DSR off in command mode, on in on-line mode

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## XPVS T2 (SF-1133HV/T2)

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MINIMUM DCE CONNECTION SPEED	
<b>Type:</b>	Immediate
<b>Format:</b>	AT [cmds] &Un
<b>Description:</b>	Selects test options
Command	Function
i &U0	Do not set minimum DCE connection speed
&U1	Set connection speed to 300bps
&U2	Set connection speed to 1200bps
&U3	Set connection speed to 2400bps
&U4	Set connection speed to 4800bps
&U5	Set connection speed to 7200bps
&U6	Set connection speed to 9600bps
&U7	Set connection speed to 12000bps
&U8	Set connection speed to 14400bps
&U9	Set connection speed to 16800bps
&U10	Set connection speed to 19200bps
&U11	Set connection speed to 21600bps
&U12	Set connection speed to 24400bps
&U13	Set connection speed to 26400bps
&U14	Set connection speed to 28800bps
&U15	Set connection speed to 31200bps
&U16	Set connection speed to 33600bps

BREAK CONTROL	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] &Yn [cmds]
<b>Description:</b>	Controls break
Command	Function
i &Y0	Destructive break. Does not send break
&Y1	Destructive break. Break expedited
&Y2	Nondestructive break. Break expedited

### S(status) -REGISTERS

BIT-MAPPED REGISTER S13	
<b>Type:</b>	Register
<b>Format</b>	AT [cmds] S13=n [cmds]
<b>Unit:</b>	Bit-mapped
<b>Description:</b>	DTR reset, ARQ 1.5K buffer DTR/reset, backspace autodial, +++ hangup

BIT-MAPPED REGISTER S15	
<b>Type:</b>	Register
<b>Format</b>	AT [cmds] S15=n [cmds]
<b>Unit:</b>	Bit-mapped
<b>Description:</b>	Disable V.42bis/MNP MNP incompatibility

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## XPVS T2 (SF-1133HV/T2)

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INACTIVITY TIMER	
<b>Type:</b>	Register
<b>Format</b>	AT [cmds] S19= <i>n</i> [cmds]
<b>Default:</b>	0
<b>Range:</b>	0-255
<b>Unit:</b>	1 minute
<b>Description:</b>	Sets the length of time inactivity timer waits before disconnecting

BREAK LENGTH	
<b>Type:</b>	Register
<b>Format</b>	AT [cmds] S21= <i>n</i> [cmds]
<b>Default:</b>	10
<b>Range:</b>	0-255
<b>Unit:</b>	.01 second
<b>Description:</b>	ARQ break length

FLOW CONTROL CHARACTER - XON	
<b>Type:</b>	Register
<b>Format:</b>	AT [cmds] S22= <i>n</i> [cmds]
<b>Default:</b>	17
<b>Range:</b>	0-127
<b>Unit:</b>	ASCII
<b>Description:</b>	Sets the character used to represent XON

FLOW CONTROL CHARACTER - XOFF	
<b>Type:</b>	Register
<b>Format:</b>	AT [cmds] S23= <i>n</i> [cmds]
<b>Default:</b>	19
<b>Range:</b>	0-127
<b>Unit:</b>	ASCII
<b>Description:</b>	Sets the character used to represent XOFF

BIT-MAPPED REGISTER S27	
<b>Format</b>	AT [cmds] S27= <i>n</i> [cmds]
<b>Default:</b>	Unidentified
<b>Unit:</b>	Bit-mapped
<b>Description:</b>	V.21 @ 300bps, non-trellis encoding, disable 2400 Hz answer tone, 9600 result codes, disable V.32bis, enable V.23

BIT-MAPPED REGISTER S28	
<b>Format</b>	AT [cmds] S28= <i>n</i> [cmds]
<b>Default:</b>	8
<b>Range:</b>	0-255
<b>Unit:</b>	0.1 second
<b>Description:</b>	Controls V.32 handshake length

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ANSWER MODE TIMER	
<b>Type:</b>	Register
<b>Format:</b>	AT [cmds] S29= <i>n</i> [cmds]
<b>Default:</b>	20
<b>Range:</b>	0-255
<b>Unit:</b>	.01 second
<b>Description:</b>	V.21 answer mode timer

BIT-MAPPED REGISTER S32	
<b>Type:</b>	Register
<b>Format:</b>	AT [cmds] S32= <i>n</i> [cmds]
<b>Unit:</b>	Bit-mapped
<b>Description:</b>	Disable V.FC, V.34, V.34bis, Enable V.8

BIT-MAPPED REGISTER S33	
<b>Type:</b>	Register
<b>Format:</b>	AT [cmds] S33= <i>n</i> [cmds]
<b>Unit:</b>	Bit-mapped
<b>Description:</b>	Disable 2400, 2743, 2800, 3000, 3200, and 3429 symbol rates, call indicate, V.8

BIT-MAPPED REGISTER S34	
<b>Type:</b>	Register
<b>Format:</b>	AT [cmds] S34= <i>n</i> [cmds]
<b>Unit:</b>	Bit-mapped
<b>Description:</b>	Disable 8S-2D, 16S-4D, 32S-4D maps