WISECOM, INC.

WS-5614JS3/ES3 (INTERNAL)

Card TypeModemChip SetUnidentified

I/O Options Line out, line in, speaker out, microphone in

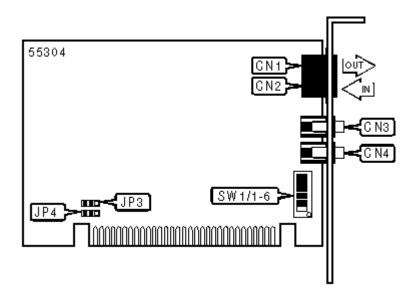
Maximum Modem Rate56KbpsMaximum Fax Rate14.4KbpsData Modulation ProtocolBell 103/212A

ITU-T V.22, V.22bis, V.32, V.32bis, V.34, 56Kflex

Fax Modulation Protocol ITU-T V.17, V.21 CH.2, V.27ter, V.29

Error Correction/Compression MNP5, V.42, V.42bis

Fax Class I
Data Bus Class I
8-bit ISA



Function	Label		Function	Label
Line out (RJ-11)		CN1	Speaker out	CN3
Line in (RJ-11)		CN2	Microphone in	CN4

	PLUG & PLAY	
Setting	JP3	JP4
■ Plug & play enabled	Pins 1 & 2 closed	Pins 1 & 2 closed
Plug & play disabled	Pins 2 & 3 closed	Pins 2 & 3 closed

	SERIAL PORT ADDRESS	
Setting	SW1/1	SW1/2
COM1 (3F8h)	On	On
COM2 (2F8h)	Off	On

COM3 (3E8h)	On	Off

Off

Off

	INTEF	RRUPT		
IRQ	SW1/3	SW1/4	SW1/5	SW1/6
2	On	Off	Off	Off
3	Off	On	Off	Off
4	Off	Off	On	Off
5	Off	Off	Off	On

SUPPORTED COMMAND SET

Basic AT Commands

AT, **■+++■**, A/

A, B, E, H, V

&C, &M, &P, &T, &V, &W, &X, &Y, &Z

COM4 (2E8h)

Extended AT Commands

%C, %E, %L, %Q

 \A, \B, \K, \N

Special Commands

S Registers

 $S0,\,S1,\,S2,\,S3,\,S4,\,S5,\,S6,\,S7,\,S8,\,S9,S10,\,S11,\,S12,\,S14,\,S16,\,S18,\,S21,\,S22,\,S23,\,S24,\,S25$

S26, S27, S29, S30, S31, S32, S33, S36, S37, S38, S39, S40, S41, S46, S48, S82, S91, S92, S95

Note: See MHI Help File for full command documentation.

PROPRIETARY AT COMMAND SET

COMMUNICATIONS MODE

Type: Configuration

Format: AT [cmds] &Qn [cmds]

Description: Selects communications mode options

Command Mode

&Q0 Asynchronous mode, serial port speed follows connect speed.

&Q1 Asynchronous off-line command mode and synchronous connect mode.

&Q2 Asynchronous off-line command mode - modem autodials first number in directory, then synchronous connect mode.

Asynchronous off-line command mode on low DTR, synchronous connect mode on high DTR.

■ &Q5 Error correction mode

&Q6 Buffered asynchronous mode

DATA SET READY (DSR)

Type: Configuration

&Q3

Format: AT [cmds] &Sn [cmds]

Description: Selects DSR options

Command Function

&S0 DSR forced high

&S1 DSR high only while modem is handshaking or connected

DATA TERMINAL READY (DTR)

Type: Configuration

Format: AT [cmds] &Dn [cmds]

Description: Selects modem response to DTR

Command Mode

&D0 DTR ignored

&D1 DTR toggle causes online command mode

■ &D2 DTR toggle causes modem to go on-hook

&D3 Modem reset on DTR toggle

DIAL

Type: Immediate

Format: AT [cmds] D<#> [cmds]

Description: Dials telephone number according to any modifiers included in the string

FACTORY DEFAULT PROFILE

Type: Configuration

Format: AT [cmds] &F [cmds]

Description: Sets values in active profile to values found in the default profile

&F0 Load factory configuration 0

&F1 Load factory configuration 1

FLOW CONTROL

Type: Configuration

Format: AT [cmds] &Kn [cmds]

Description: Enables flow control options

Command Function

&K0 Flow control disabled

&K3 RTS/CTS flow control enabled

&K4 XON/XOFF flow control enabled

&K5 Transparent XON/XOFF flow control enabled

■ &K6 Both RTS/CTS & XON/XOFF flow control enabled

GUARD TONE

Type: Configuration

Format: AT [cmds] &Gn [cmds]

Description: Commands the modem to transmit a guard tone in V.22/V.22bis

Note: Used primarily for international data transmission

Command	Function
■ &G0	Guard tone disabled
&G1	550Hz guard tone enabled
&G2	1800Hz guard tone enabled
	REPORT INFORMATION
¬ype:	Immediate

Format: AT [cmds] In [cmds]

Description: Displays information requested

Command	Function

10 Reports modem model and speed

Reports ROM checksum 11

12 Tests and reports ROM checksum

Reports product ID string 13

Reports diagnostic information 16

Reports product configuration

RESTORE PROFILE ON POWER-UP

Configuration Type:

Format: AT [cmds] Yn [cmds]

Description: Restores a selected profile to default profile on power-up (hard reset)

Command Function

■ Y0 Restore stored profile 0 on power-up

Y1 Restore stored profile 1 on power-up

Y2 Load factory default configuration 0 on power-up

Υ3 Load factory default configuration 1 on power-up

Y4 Load factory default configuration 2 on power-up

	RTS/CTS
Туре:	Configuration
Format:	AT [cmds] &Rn [cmds]
Description:	Selects RTS/CTS options
Command	Function
&R0	CTS follows RTS in data mode; RTS is ignored in command mode.
■ &R1	CTS forced high, RTS is ignored.
	SOFT RESET
	SUFI RESET
Туре:	Configuration
Format:	AT [cmds] Zn [cmds]
Description:	Restores modem profiles previously stored in non-volatile RAM using the &W command

Command Function

■ Z1 Restore stored profile 0

Z2 Restore stored profile 1

Z3 Load factory default configuration 0

Z4 Load factory default configuration 1

Z5 Load factory default configuration 2

SPEAKER MODE

Type: Configuration

Format: AT [cmds] Mn [cmds]

Description: Selects various speaker options

Command Function

M0 Speaker disabled

M1 Speaker enabled until carrier signal detected

Type: Configuration

Format: AT [cmds] Ln [cmds]

Description: Controls speaker volume

Command Function

L0 Low volume setting

L1 Low volume setting

■ L2 Medium volume setting

L3 Highest volume setting

EXTENDED AT COMMAND SET

MODULATION SELECTION

Type: Configuration

Format: AT [cmds] +MS=x,y,z,a,b,c [cmds]

Description: Sets options for active protocol; the transfer rates specified by z and a must be valid for the protocol selected.

Command Function

x=0 V.21

x=1 V.22

x=2 V.22bis

x=3 V.23

<=9 V.32

x=10 V.32bis

x=11 V.34, K56flex

x=64 Bell 103

x=69 Bell 212A

y=0 Automode disabled

y=1 Auto-detect highest speed enabled

z, a=300	Set minimum or maximum transfer rate at 300bps, respectively.
z, a=1200	Set minimum or maximum transfer rate at 1200bps, respectively.
z, a=2400	Set minimum or maximum transfer rate at 2400bps, respectively.
z, a=4800	Set minimum or maximum transfer rate at 4800bps, respectively.
z, a=7200	Set minimum or maximum transfer rate at 7200bps, respectively.
z, a=9600	Set minimum or maximum transfer rate at 9600bps, respectively.
z, a=12000	Set minimum or maximum transfer rate at 12000bps, respectively.
z, a=14400	Set minimum or maximum transfer rate at 14400bps, respectively.
z, a=16800	Set minimum or maximum transfer rate at 16800bps, respectively.
z, a=19200	Set minimum or maximum transfer rate at 19200bps, respectively.
z, a=21600	Set minimum or maximum transfer rate at 21600bps, respectively.
z, a=24000	Set minimum or maximum transfer rate at 24000bps, respectively.
z, a=26400	Set minimum or maximum transfer rate at 26400bps, respectively.
z, a=28800	Set minimum or maximum transfer rate at 28800bps, respectively.
z, a=33600	Set minimum or maximum transfer rate at 33600bps, respectively.
<i>b</i> =0	■ -law encoding
b=1	■ -law encoding
<i>c</i> =0	Robbed bit signaling disabled
c=1	Robbed bit signaling enabled

S(Status) REGISTERS

CONNECTION FAILURE CODES

Type: Register

Format AT [cmds] S86? [cmds]

Description: Reports codes which correspond to the possible causes of a connection failure

Value Meaning

0 Normal hang up

4	Carrier signal lost
5	No error-control detected for remote modem during feature negotiation
9	No common protocol found
12	No failure - remote modem disconnected normally
13	Remote modem failed to respond after 10 re-transmissions same message
14	Violation of negotiated protocol caused failure