

# RC224ATF

*Confidential: Code Release Notes*

*Product Affected:* RC224ATF Rev. K

product bulletin

RC224ATF Update: February 26, 1996

1. Add V.21 FDX FSK 300 bps Data Mode.

V.21 FDX is selected if DTE speed is 300 bps and ATB0 is set.

Bell 103 is selected if DTE speed is 300 bps and ATB1 is set.

2. Fix America On-Line Windows Problem.

16C450 UART will now allow Loopback in ONLINE mode, so Windows COM driver can select Loopback when closing the COM Port with the RC224ATF still connected (ONLINE Mode).

3. Keep CTS ON while in Sleep Mode.

The code was changed to keep CTS ON while in Sleep Mode, so that COM software (e.g. XTALK) would be able to send a character to the RC224ATF to wake it up. Some COM packages will not send a character unless CTS is ON.

4. Fix S7 timeout during Dialing (X0,X1,X2,X3,X4).

The S7 timeout could be 2x the value in S7, and it could also be affected by Ringback detect time (see table below).

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RC224ATF H-Code S7 Abort Time Table

Modem Class	Xn	Abort Time (sec)	
		S7=30	S7=30
		w/Ring-back	w/o Ring-back
0 (data)	1	30	30
0 (data)	3	37	60
0 (data)	4	37	60
1 (fax)	1	30	30
1 (fax)	3	30	30
1 (fax)	4	30	30

The code was changed to ignore Ringback in Data (Class=0), as is done in Fax (Class=1), and to abort the connection if neither BUSY nor Answer Tone is detected within the S7 timeout (i.e. instead of trying the ORG HNSHK for an additional S7 timeout).

5. Change STOP Bit length from 3/4 to 7/8.

6. Add Continuous Tone Generation feature for measuring DTMF.

Added %T commands to generate continuous tones:

%T0 - reset any %T1, %T2, %T3 command

%T1 - make tone generation continuous (e.g. Answer Tone, Calling Tone, and DTMF tones). Note: Calling Tone is only continuous for 30 sec.

Example to send continuous Calling Tone

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1. AT+FCLASS=1 (DTE speed must be 19.2 kbps)

2. ATMOX3%T1

3. ATDT

4. 1100 Hz Calling Tone will be sent for 30 sec or until keyboard abort.

%T2 - disable the DTMF Low Tone (i.e. to measure High Tone).

%T3 - disable the DTMF High Tone (i.e. to measure Low Tone).

7. Increased default DTMF level to -4.3 dBm.

8. Correct &P2 and &P3 display in VIEW command (&V).

In the VIEW command (&V) &P2 was displayed as &P0, and &P3 was displayed as &P1. NOTE: pulse dialing would work as selected, only the display was wrong. The code was changed to correctly display both bits of the &Px selection.

9. The 100 ohm resistor at XTLO is still required.