# **RigExpert**<sup>®</sup> **TI-7** USB Transceiver Interface



# Software Setup Examples

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# 1. DigiPan

(DigiPan version 2.0)

# 1.1 Audio configuration

Go to Configure – Sound card menu:

	🗮 Soun	d card			×
	Туре	Computers	soundcard 🔻	] [	ОК
	lnput	Line in (2-F	]	Cancel	
Output		Speakers	(2- RigExpert TI 💌	·	
	Sampler	ate, Hz	11025		

Select **RigExpert TI-7** as both Input and Output and press OK to apply new settings.

# 1.2 PTT configuration

Go to Configure – Serial port menu to set up the PTT output:



Select a serial port number which should be used for the PTT output (**COM8** in this example) and press OK to continue.

You may open the Status tab of the Navigator program to check if the serial port was configured successfully:

🛅 RigExpert Navigat	or	×
Status orts Setting	s Firmware	
Interface: RigExpert	: TI-7 (7000003)	•
CAT port		
COM7	- is not open by any program	
PTT/CW port		
COM8	is open by DigiPan.exe	
PTT=	RTS Test CW=DTR Test	
FSK port		
COM9	- is not open by any program	
	Hide	

# 2. MixW

(MixW version 2.20)

# 2.1 Audio configuration

Install and run MixW. Configure personal data (such as callsign and name), then go to Configure – Sound device settings menu:

X Sound Device Settings	X
Device: Sound card (internal or external)	ОК
Input: Line in (2- RigExpert TI-7)	Cancel
Output: Speakers (2- RigExpert TI-7)	Calibrate
Sample <u>r</u> ate: 11025	
Clock adjustment ppm:       PX:     0       TX:     0	
Sound <u>h</u> istory: 20 sec	
Spectrum speed: 🛛 💌	
DSP filter None 💌	
FFT window Cosine 💌	
Eull duplex 🔽 Disabled	
Audio processing: Message-based (standard)	

Select **RigExpert TI-7** as both Input and Output, then check other settings and finally press OK to apply new settings.

# 2.2 CAT configuration

#### Go to Configure – TRCVR CAT/PTT menu:

Y PTT & CAT	X
CAT YAESU	OK Cancel
PTT & CAT Interface	Details Disabled
Save frequency on exit	Display zero beat frequency
PTT via CAT command	Cat correction (Hz)
CW via CAT command	Global 0
CW is LSB	USB 0
AFSK in place of FSK	LSB 0
DIG (Yaesu) is LSB	
CW gitch 800	Hz Digi -1000
FSK center fq 2210	Hz
Default digi mode	TX to RX: 0
Mouse wheel for tuning	Sensitivity, Hz/tick 500

Select your transceiver type and model and press Details:

🔀 Serial po	rt	×
Port	COM7* 💌	ОК
Baud rate	4800 💌	Cancel
Data bits	8 💌	
Parity	None	
Stop bits	2 💌	
RTS	PTT 💌	Hardware flow control
DTR	CW 💌	

In the Serial port window, select a serial port number for the CAT system (**COM7** in this example). Select a baudrate and a number of stop bits according to the user's manual of your transceiver. Press OK to close this window, and then review other settings in the PTT&CAT dialog. Finally then press OK to finish.

#### 2.3 PTT configuration

Go to Configure – Secondary PTT port – Port settings menu:



Select a serial port number which should be used for PTT and CW outputs (**COM8** in this example), and make sure RTS and DTR outputs are configured for PTT and CW, correspondingly. Press OK to continue.

#### 2.4 FSK/AFSK configuration

MixW is able to transmit RTTY in either FSK or AFSK mode.

#### 2.4.1 FSK mode

Go to Configure – TRCVR CAT/PTT menu and make sure that the "AFSK in place of FSK" box is not checked:

🔀 PTT & CAT				
CAT YAESU		•		OK
Model FT-990		•		Cancel
PTT & CAT Interfa	ice			
COM7 (4800)		Deta	ails 📔 🗖	Disabled
Save frequency	on exit		splay zero be	at frequency
PTT via CAT co	mmand		- Cat correcti	on (Hz)
CW via CAT cor	nmand		Global	0
∣_ CW out <u>v</u> ia soun Γ CW is LSB	dcard		USB	
AFSK in place or	f FSK		LSB	0
DIG (Yaesu) is	LSB	•	CW	0
CW <u>p</u> itch	800	Hz	Digi	-1000
FSK center fq	2210	Hz	<b>T</b> (1) <b>D</b> (1)	
Default digi mode	LSB	•	<u>1</u> X to RX:	
Mouse wheel for	tuning	Sensiti	vity, Hz/tick	500

Press OK to close the dialog. Next, go to Configure – FSK port – Port settings menu:

🔀 FSK Seri	al port		×
Port	COM9 *	•	ОК
Baud rate	1200	-	Cancel
Data bits		-	
Parity	None	-	🗖 Echo
Stop bits	1.5	<b>v</b>	🔲 Disable device
RTS	Always On	•	
DTR	Always On	•	Hardware flow control

Select a serial port number which should be used for the FSK output (**COM9** in this example) and press OK to continue.

You may open the Status tab of the Navigator program to check if the serial ports were configured successfully:

RigExpert Navigator
Status orts Settings Firmware
Interface: RigExpert TI-7 (70000003)
CAT port
COM7 is open by MixW2.exe
Parameters: 4800 baud, 8, N, 2
PTT/CW port
COM8 is open by MixW2.exe
PTT=RTS Test CW=DTR Test
FSK port
COM9 is open by MixW2.exe
Parameters: 45 baud, 5, N, 1.5
Hide

#### 2.4.2 AFSK mode

Go to Configure – TRCVR CAT/PTT menu and make sure that the "AFSK in place of FSK" box is checked:

>	🕻 PTT &	CAT				×
	CAT	YAESU		•		OK
	<u>M</u> odel	FT-990		•		Cancel
	PTT&(	CAT Interfi	ace ——			
	Сом	7 (4800)		Det	ails 📃	Disabled
	<u>S</u> ave	írequency	on exit	🗖 Di	splay zero be	eat frequency
		ia CAT co	ommand		Cat correct	ion (Hz)
	∣_ CW vi ⊏ au	a CAT coi	mmand		Global	0
	CW is	it⊻ia sour LSB	iacara		USB	0
	AFSK	in place c	of FSK		LSB	0
	DIG (Yae:	su) is	LSB	•	cw	0
	CW <u>p</u> itch		800	Hz	Digi	-1000
	FSK cente	er fq	2210	Hz		
	Default di	gi mode	LSB	-	<u>T</u> X to RX:	0
Ì	Mouse	e wheel fo	r tuning	Sensiti	ivity, Hz/tick	500

Press OK to close the dialog.

You may open the Status tab of the Navigator program to check if the serial ports were configured successfully:

🖥 RigExpert Navigator 🗙
Status orts Settings Firmware
Interface: RigExpert TI-7 (70000003)
CAT port
COM7 is open by MixW2.exe
Parameters: 4800 baud, 8, N, 2
PTT/CW port
COM8 is open by MixW2.exe
PTT=RTS Test CW=DTR Test
FSK port
COM9 - is not open by any program
Hide

# **3. MMTTY**

(MMTTY version 1.68A)

# 3.1 Audio configuration

In the MMTTY software, go to Options – MMTTY Settings menu. Choose the SoundCard tab to configure audio input and output devices:



Select "RigExpert TI-7" in both Reception and Transmission areas.

# 3.2 PTT configuration

Switch to the TX tab and click the "Radio command" button:

Radio con	nmand	X
Port def	inition	
Port	COM8 Baud 4800 Char. wait 0 ms	
	Data length     Stop     Parity     flow control       ○ 7bits     ○ 1bit     ○ None     □ XON/XOFF       ○ 8bits     ○ 2bits     ○ Odd	
Comma	nds	
Init		
Rx	\\$0000000F	
Tx	\\$00000010F\w10	
Model	NONE   Polling interval 1   secs	
	Frequency offset • OFF OLSB OUSB	
Group	Yaesu FT 1000D, 1000MP, 920  Load Save ? OK Cance	1

Select a serial port number which should be used for the PTT output (**COM8** in this example), and make sure the PTT box is checked. Leave all other settings unchanged. Press OK to close this window.

#### 3.3 FSK/AFSK configuration

MMTTY is able to transmit RTTY in either FSK or AFSK mode.

#### 3.3.1 FSK mode

Switch to the TX tab for the FSK port configuration:



Select a serial port number which should be used for the FSK output (**COM9** in this example).

Switch to the Misc tab:



Select "COM-TxD(FSK)" in the "Tx Port" area and then press the "USB Port" button:

USB Port Option		
Processing method		
○ A: Normal		
○ B: Polling		
C: Limiting speed		
O D: Polling and Limiting speed		
Please try to test B, C, D, if you have a trouble in the USB-COM adaptor. (C)Limiting speed seems to be well.		
OK Cancel		

Select "C: Limiting speed" in the "USB Port Options" dialog and press OK.

Finally, press OK in the "Setup MMTTY" dialog to apply new settings.

You may open the Status tab of the Navigator program to check if the serial ports were configured successfully:

📔 RigExpert Navigator
Status Ports Settings Firmware
Interface: RigExpert TI-7 (70000003)
CAT port COM7 - is not open by any program
PTT/CW port COM8 is open by MMTTY.EXE PTT=RTS Test CW=DTR Test
FSK port COM9 is open by MMTTY.EXE Parameters: 45 baud, 5, N, 1.5
Hide

#### 3.3.2 AFSK mode

Switch to the TX tab and select NONE in the Port box:



Switch to the Misc tab and select Sound in the "Tx Port" area:



Finally, press OK in the "Setup MMTTY" dialog to apply new settings.

You may open the Status tab of the Navigator program to check if the serial ports were configured successfully:

🛅 RigExpert Navig	jator	×
Status Ports Sett	tings Firmware	
Interface: RigEx	pert TI-7 (70000003)	-
CAT port		
COM7	- is not open by any program	
PTT/CW port		
COM8	is open by MMTTY.EXE	
PT	T=RTS Test CW=DTR Test	
-FSK port-		
COM9	- is not open by any program	
	Hide	

#### 4. MMSSTV

(MMSSTV version 1.13A)

#### 4.1 Audio configuration

In the MMSSTV software, go to Options – Setup MMSSTV menu. Choose the Misc tab to configure audio input and output devices:

Setup MMSSTV			×
RX TX Misc			
Sound Card In Line in (3- RigExpert TI-7) • Out Speakers (3- RigExpert TI-7) • FIFO RX 12 • TX 8 • Priority C Normal C Highest	WaterFall History max. 32 JPEG Ovality 80 2 96	FFT Background Signals Trails Sync marke Freq market	r
Source Mono C Right C Left	Save window location	Priority of M	MMSSTV O Higher
Clock	System Font		
11025.00 V Hz Adj	Window Times New Roma	an	Size 0
Tx offset 0.00 + Hz	Japanese	English	Other
		ОК	Cancel

Select "RigExpert TI-7" in both In and Out boxes in the "Sound Card" area.

#### 4.2 PTT configuration

Switch to the TX tab:

Setup MMSSTV			>
RX TX Misc			
PTT Digital outpu	t level	Template Callsign U	U9JDR
RTS while Scan		VOX tone	C NONE
Radio command	V	<ul> <li>Standard</li> <li>User define</li> </ul>	ed NONE
TxBPF/TxLPF	Loop back		
▼ Tx BPF Tap 24 ▼ f	• OFF		Fixed mode
Tx LPF Freq 2000 V Hz	<ul> <li>Internal</li> <li>External</li> </ul>	(full-duplex)	Encode FSKID
Tune button	CWID		
Freq 1750 - Hz	• OFF	○ CW ○ MM	IV 1000 - Hz
Time length -1 💌 s	Slow		Fast
Auto TX (for SAT/UHF)			Macro
		0	K Cancel

Select a serial port number which should be used for the PTT output (**COM8** in this example). Press OK to close this window.

You may open the Status tab of the Navigator program to check if the serial ports were configured successfully:

🖥 RigExpert Navigator	×
Status Ports Settings Firmware	
Interface: RigExpert TI-7 (70000003)	•
CAT port	
COM7 - is not open by any program	
PTT/CW port	
COM8 is open by MMSSTV.EXE	
PTT=RTS Test CW=DTR Test	
FSK port	
COM9 - is not open by any program	
Hid	e

# 5. MMVARI

(MMVARI version 0.45A)

# 5.1 Audio configuration

In the MMVARI software, go to Options – Setup MMVARI menu. Choose the Misc tab to configure audio input and output devices:

Setup MMVARI		×
RX TX Misc		
Soundcard In Line in (3- RigExpert TF Out Speakers (3- RigExpert FIFO RX 12 TX 6 Input channel Mono Right Left Priority Normal Highest Higher Clock RX 11025.00 THz	EX window         One         Code list         Time stamp = UTC         ✓ Scroll with mouse wheel         Show CTRL code         TX window         Font         Size and position         ⓒ Windows default         ⓒ Save size & pos	Spectrum scope Waterfall scope Level Sigs LCD CRT
TxOffset 0.00 THZ	Restore sub channels	Japanese English
		OK Cancel

Select "RigExpert TI-7" in both In and Out boxes in the "Sound Card" area.

# 5.2 PTT configuration

Switch to the TX tab:

Setup MMVART			×
RX TX /lisc			
PTT COM8 COM8 Exclusive lock FSK(RTTY) Output Invert logic Radio command Misc Convert MBCS alph Output single tone of	LoopBack Internal External (full-duplex) Key assign TX F12 TXOFF PAUSE TXOFF PAUSE TXOFF PAUSE	Macro CallSign UU9JD Edit AS(C Event macro Name OnTim Clear Digital output le	R W) Edit vel
		ОК	Cancel

Select a serial port number which should be used for the PTT output (**COM8** in this example). Press OK to close this window.

You may open the Status tab of the Navigator program to check if the serial ports were configured successfully:

RigExpert Navigator
Status Ports Settings Firmware
Interface: RigExpert TI-7 (70000003)
CAT port
COM7 - is not open by any program
PTT/CW port
COM8 is open by MMVARI.exe
PTT=RTS Test CW=DTR Test
FSK port
COM9 - is not open by any program
Hide

#### 6. Fldigi

(Fldigi version 3.21.83)

# 6.1 Audio configuration

In the Fldigi software, go to Configure – Sound Card menu. Choose the Audio tab and then choose Devices tab below:

🔳 Fldig	i configuration			
Operator	UI Waterfall Modems II	Rig Misc Audio Web A	utostart	
Devices	Settings 🛛 Right channel 🗍 Wa	v		
	Ooss		Device:	
-	▶	Capture: Line in (3- RigExpert 1 layback: Speakers (3- RigExpe	11-7) rt TI-7)	
	□PulseAudio	Server string:		
	◯File I/O only			
Re	store defaults		Save	Close <-

Check the PortAudio box and then select "RigExpert TI-7" in both Capture and Playback boxes.

#### 6.2 PTT configuration

Switch to the Rig tab and then select the Hardware PTT tab below:

Fldigi configuration
Operator UI Waterfall Modems Rig Audio ID Misc Web Autostart
Hardware PTT RigCAT Hamlib XML-RPC
OPTT tone on right audio channel
h/w ptt device-pin
Image: Separate serial port PTT         Image: Separat
Device: COM8
Initialize
PTT delays valid for all CAT/PTT types
Start of transmit PTT delay
Restore defaults Close

Check the "Use separate serial port PTT" and then select a serial port number which should be used for the PTT output (**COM8** in this example). Also check the "Use

RTS" port box and press Initialize to open the serial port. Do not forget to press the Save button to save your settings.

#### 6.3 CAT configuration

Switch to the Hamlib tab:

Fldigi configuratio           Operator         UI         Waterfall         Hardware PTT         RigCAT         Hardware PTT         Hardware P	n Iodems Rig Audio ID Misc milb XML-RPC	Web Autostart	
Rig: Kenwood TS-570D (	Stable)	Device: COM7	
Retries 3 Write delay (ms)	Retry Interval (ms) 1000 Post write delay (ms)	Baud rate: 57600 Stopbits	
OPTT via Hamlib (	ommand	Sideband: Rig mode	
ODTR +12		ORTS +12	
ORTS/CTS flow o	ontrol	OXON/XOFF flow control	
Advanced configuration		Initializ	ze
Restore defaults	]	Save	: <-

First, check the "Use Hamlib" box. Next, choose your transceiver model and uncheck the "PTT via Hamlib command" box. Select or enter a serial port number for the CAT system (**COM7** in this example). Select a baudrate and a number of stop bits according to the user's manual of your transceiver. Finally, press Initialize to open the CAT serial port and then press the Save button to save your settings.

You may open the Status tab of the Navigator program to check if the serial ports were configured successfully:

RigExpert Navigator
Status Ports Settings Firmware
Interface: RigExpert TI-7 (70000003)
CAT port
COM7 is open by fldigi.exe
Parameters: 57600 baud, 8, N, 1
PTT/CW port
COM8 is open by fldigi.exe
PTT=RTS Test CW=DTR Test
FSK port
COM9 - is not open by any program
Hide

#### 7. Ham Radio Deluxe

(HRD version 6.2.3.271)

# 7.1 CAT configuration

Run Ham Radio Deluxe and go to File – Connect menu (or press Ctrl-N). In the Connect dialog, select the New tab:

New Pres	et Serial Ports	Help		
Company:	Yaesu		atus	
Radio:	FT-990	•		
			_	
COM Port:	COM7			
Speed:	4800			
CI-V Add:	0-		-	
Flow contro	l / Interface power—			
<u> </u>	<u>dtr</u> <u>r</u> rs			
	Always co	nnect to this radio v	vhen starting	
				- Auto Start
Donnect	HRD Rig C	Control. Auto Exit		HBD Digital Master

First, select your transceiver type and model. Next, select a serial port number for the CAT system (**COM7** in this example) as well as baudrate according to the user's manual of your transceiver. Finally, press Connect to let the HRD talk to your rig.

#### 7.2 Audio configuration

Run the Digital Master and go to Tools – Program options menu. Select Soundcard from the list at the left:

Program Options	
Appearance Callsign (My Info)	Soundcard
Logbook Modes + IDs	Device: Line in (3- RigExpert TI-7)
PTT Radio	Output (Transmit)
Soundcard	Device: Speakers (3- RigExpert TI-7)
Sounds Storage	
	Appearance Callsign (My Info) Clock Logbook Modes + IDs PTT Radio OSO Soundcard Sounas Storage

Select "RigExpert TI-7" in both Input and Output boxes.

# 7.3 PTT configuration

In the Digital Master, go to Tools – Program options menu. Select PTT from the list at the left:



Select the "via Serial (COM) port" radio button, then select a serial port number which should be used for the PTT output (**COM8** in this example). Also check the "Set RTS (request to send)" box.

# 7.4 CW configuration

In the Digital Master, go to Tools – Program options menu. Select "Modes + IDs" from the list at the left:



Check the "Enable serial (COM) port keying" and select a serial port number which should be used for the CW output (**COM8** in this example, same as the PTT port). Also check the "Toggle pins: DTR" box.

#### 7.5 FSK/AFSK configuration

The Digital Master is able to transmit RTTY in either FSK or AFSK mode.

#### 7.5.1 FSK mode

In the Digital Master, go to Tools – Program options menu. Select "Modes + IDs" from the list at the left and then choose the RTTY tab:



In the "FSK Keying" area, check the Enable box and select a serial port number which should be used for the FSK output (**COM9** in this example). In addition, select the "Microham 1 (TX) only" radio button.

To operate RTTY using the FSK mode, select "RTTY-45 (FSK)" mode in the main window of the Digital Master.

#### 7.5.2 AFSK mode

To operate RTTY using the AFSK mode, do not configure the FSK output. Just select "RTTY-45 (AFSK)", "RTTY-50" or "RTTY-75" mode in the main window of the Digital Master.

#### 8. WinTest

(WinTest version 4.8.0)

#### 8.1 CAT configuration

In the WinTest program, go to Options – Configure interfaces menu:

	Network	9600 8-N-1	Configure	LPT Configure
	Network	9600 8-N-1	Configure	
Сомз	Network	9600 8-N-1	Configure	PTT ON delay (ms): [50
	Network	9600 8-N-1	Configure	Ethernet
	Network	9600 8-N-1	Configure	Broadcast address: 192.168.0.255 By defe
	Network	9600 8-N-1	Configure	Port number:
СОМ7	Radio 1	4800 8-N-2	Configure	twork protocol
Сомв	Other interface	9600 8-N-1 CW PTT	Configure	Advanced settings
□ сомя	Network	4800 8-N-2	Configure	Voice keyer
	Network	9600 8-N-1 CW PTT	Configure	Динамики (Устройство с под
	Network	9600 8-N-1	Configure	Mute the microphone input v the DVK is playing
	Network	9600 8-N-1	Configure	Mute the microphone input v the DVK is not playing
Transceivers				
Radio 1:	г-990	Don't poll 🗌 Use CI-V T	ransceive	Polling rate (ms): Auto
Radio 2: 📃		Don't poll 👘 Use CFV T	ransceive	Polling rate (ms): Auto

First, select your transceiver model ("Radio 1" at the bottom left of the window). Next, check the box which corresponds to the CAT port of the RigExpert TI-7 (**COM7** in this example). Select "Radio 1" and then click "Configure":

C	OM7 properties [Alt+H	for help]		×
	Port properties	0	ptions	
	Bits per seconds:	4800	DTR (pin 4): Alwa	xys OFF 🔍
	Data bits:	8	RTS (pin 7): Alwa	iys OFF
	Parity:	None	Active with: Both	radios 🔽
			FT-990 d	efault settings
	Stop bits:	2	OK	Cancel

Select baudrate and the number of stop bits according to the user's manual of your transceiver. Click OK to continue.

#### 8.2 PTT/CW configuration

In the WinTest program, go to Options – Configure interfaces menu:

Senai puns					Printer ports
COM1	Network		9600 8-N-1	Configure	LPT Configure
COM2	Network	~	9600 8-N-1	Configure	CW PTT ON delay (ms): 50
🔲 СОМЗ	Network	7	9600 8-N-1	Configure	Ethernet
COM4	Network	~	9600 8-N-1	Configure	Enable Ethernet network
COM5	Network	<b>v</b>	9600 8-N-1	Configure	192.168.0.255 By defau
COM6	Network	~	9600 8-N-1	Configure	9871 By defau
COM7	Radio 1	•	4800 8-N-2	Configure	Network protocol
	Other interface		9600 8-N-1 CW PTT	Configure	Advanced settings

Check the box which corresponds to the PTT/CW port of the RigExpert TI-7 (**COM8** in this example). Select "Other interface" and then click "Configure":

COM8 properties [Alt+H for help]	×
Port properties Bits per seconds: 9600	Options DTR (pin 4): CW
Data bits: 8	RTS (pin 7): PTT
Parity: None	Active with: journ radius
Stop bits: 1	OK Cancel

In the Options area, select CW as "DTR (pin 4)" and PTT as "RTS (pin 7)". Click OK to continue.

You may open the Status tab of the Navigator program to check if the serial ports were configured successfully:

🛅 RigExpert Navigator
Status Ports Settings Firmware
Interface: RigExpert TI-7 (70000003)
CAT port
COM7 is open by wt.exe
Parameters: 4800 baud, 8, N, 2
PTT/CW port
COM8 is open by wt.exe
PTT=RTS Test CW=DTR Test
FSK port
COM9 - is not open by any program
Hide

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