

# FTDX101MP RADIO MENU SETTING



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FULL FTDX101D/MP (FTDX10) setting for AM-FM-SSB-CW-DATA<sub>u/l</sub>-PSK-RTTY... using USB AUDIO PORT and COM PORT via USB virtual COM ENHANCED for CAT and COM STANDARD for CW/FSK/PTT key, in this menu settings:

**RADIO SETTING – CW SETTING – OPERATION SETTING – DISPLAY SETTING – EXTENSION SETTING**

All other MENU can be customized to your liking and does not change the basic operation!

 Silicon Labs Dual CP2105 USB to UART Bridge: Enhanced COM Port (COM9)
 Silicon Labs Dual CP2105 USB to UART Bridge: Standard COM Port (COM8)

## THIS IS FOR YOUR FTDX101D/MP FIRST START SETUP:

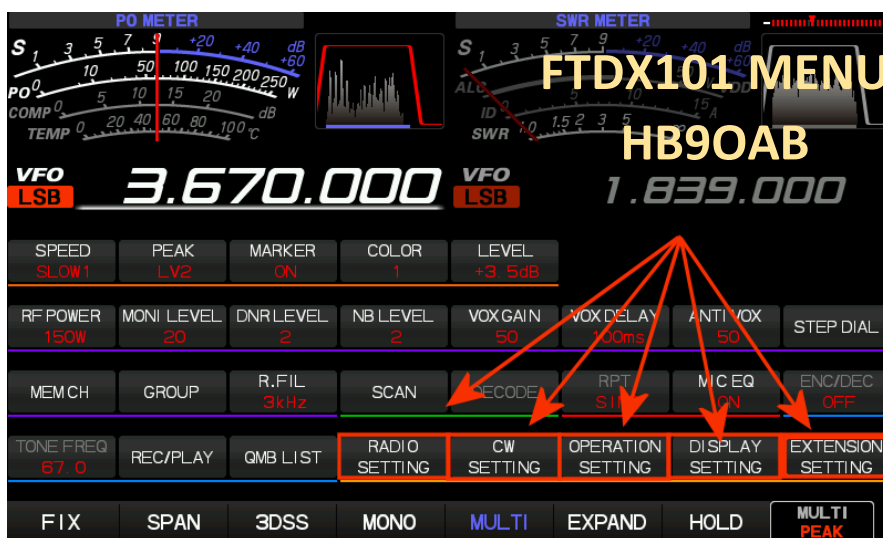
Obviously some cmd setup will have to be customized as desired but in this way it WORKS perfectly with all digital audio programs, both FSK and AFSK in all modes and to stop DIGITAL DATA in USB/LSB.

For the digital audio modes it is highly recommended to use ONLY the DATA-U/L or the PSK MODE, or FSK for RTTY and NOT SSB (USB/LSB) mode, as EQ, PROC and MICGAIN would always remain open which could create audio problems in transmission.

In DATA-U/L, RTTY and PSK, the MICGAIN, PROC and COMP are disabled by the radio firmware.

With our [FTDX101CAT & SPLITTER software](#) that works with FTDX101 and FTDX10 (FT991/A) you can have all in realtime and fast adjusted with 4x PRESETS for your favorite MODEs... PHONE/CW/FSK/DATA ...).

Personally I preferred to completely stop DATA in USB/LSB MODE which with this setup does not even enter TX.



1. Go to MENU in the FTDX101 then
2. PRESS <FUNC> KEY AND CHECK this "setup exemple" as described.
3. This is how it works and can only be improved!

**RADIO SETTING**

**FTDX101 MENU**  
**HB90AB**

MODE SSB	MODE SSB	
MODE AM	AGC FAST DELAY	300msec
MODE FM	AGC MID DELAY	1000msec
MODE PSK /DATA	AGC SLOW DELAY	3000msec
MODE RTTY	LCUT FREQ	100Hz
ENCDEC PSK	LCUT SLOPE	6dB/oct 18dB/oct
ENCDEC RTTY	HCUT FREQ	4000Hz
BACK	HCUT SLOPE	6dB/oct 18dB/oct

**RADIO SETTING**

**HB90AB**

MODE SSB	MODE SSB	
MODE AM	SSB OUT SELECT	MAIN SUB
MODE FM	SSB OUT LEVEL	50
MODE PSK /DATA	TX BPF SEL	100-2900Hz
MODE RTTY	SSB MOD SOURCE	MIC REAR
ENCDEC PSK	REAR SELECT	DATA USB
ENCDEC RTTY	RPORT GAIN	50
BACK	RPTT SELECT	DAKY RTS DTR

**RADIO SETTING**

**HB90AB**

MODE SSB	MODE AM	
MODE AM	AGC FAST DELAY	1000msec
MODE FM	AGC MID DELAY	2000msec
MODE PSK /DATA	AGC SLOW DELAY	4000msec
MODE RTTY	LCUT FREQ	OFF
ENCDEC PSK	LCUT SLOPE	6dB/oct 18dB/oct
ENCDEC RTTY	HCUT FREQ	OFF
BACK	HCUT SLOPE	6dB/oct 18dB/oct

**RADIO SETTING**

MODE SSB <b>MODE AM</b> MODE FM MODE PSK /DATA MODE RTTY ENCDEC PSK ENCDEC RTTY	<b>MODE AM</b>		^
	AM OUT SELECT	<b>MAIN</b> SUB	FTDX101 MENU
	AM OUT LEVEL	50	
	TX BPF SEL	50-3050Hz	
	AM MOD SOURCE	<b>MIC</b> REAR	
	MIC GAIN	<b>MCVR</b>	
	REAR SELECT	DATA <b>USB</b>	
	RPORT GAIN	50	
BACK			

**RADIO SETTING**

MODE SSB <b>MODE AM</b> MODE FM MODE PSK /DATA MODE RTTY ENCDEC PSK ENCDEC RTTY	<b>MODE AM</b>		^
	AM OUT LEVEL	50	FTDX101 MENU
	TX BPF SEL	50-3050Hz	
	AM MOD SOURCE	<b>MIC</b> REAR	
	MIC GAIN	<b>MCVR</b>	
	REAR SELECT	DATA <b>USB</b>	
	RPORT GAIN	50	
	RPTT SELECT	DAKY RTS <b>DTR</b>	
BACK			

**RADIO SETTING**

MODE SSB MODE AM <b>MODE FM</b> MODE PSK /DATA MODE RTTY ENCDEC PSK ENCDEC RTTY	<b>MODE FM</b>		^
	AGC FAST DELAY	160msec	FTDX101 MENU
	AGC MID DELAY	500msec	
	AGC SLOW DELAY	1500msec	
	LCUT FREQ	300Hz	
	LCUT SLOPE	6dB/oct <b>18dB/oct</b>	
	HCUT FREQ	3000Hz	
	HCUT SLOPE	6dB/oct <b>18dB/oct</b>	
BACK			

**RADIO SETTING**

MODE SSB MODE AM <b>MODE FM</b> MODE PSK /DATA MODE RTTY ENCDEC PSK ENCDEC RTTY BACK	<b>MODE FM</b>	
	FM OUT SELECT	<input checked="" type="button" value="MAIN"/> <input type="button" value="SUB"/>
	FM OUT LEVEL	50
	FM MOD SOURCE	<input checked="" type="button" value="MIC"/> <input type="button" value="REAR"/>
	MIC GAIN	MCVR
	REAR SELECT	<input type="button" value="DATA"/> <input checked="" type="button" value="USB"/>
	RPORT GAIN	50
	RPTT SELECT	<input type="button" value="DAKY"/> <input type="button" value="RTS"/> <input checked="" type="button" value="DTR"/>

FTDX101 MENU

**RADIO SETTING**

MODE SSB MODE AM <b>MODE FM</b> MODE PSK /DATA MODE RTTY ENCDEC PSK ENCDEC RTTY BACK	<b>MODE FM</b>	
	FM MOD SOURCE	<input checked="" type="button" value="MIC"/> <input type="button" value="REAR"/>
	MIC GAIN	MCVR
	REAR SELECT	<input type="button" value="DATA"/> <input checked="" type="button" value="USB"/>
	RPORT GAIN	50
	RPTT SELECT	<input type="button" value="DAKY"/> <input type="button" value="RTS"/> <input checked="" type="button" value="DTR"/>
	RPT SHIFT (28MHz)	100kHz
	RPT SHIFT (50MHz)	1000kHz

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FTDX101 MENU

**RADIO SETTING**

MODE SSB MODE AM MODE FM <b>MODE PSK /DATA</b> MODE RTTY ENCDEC PSK ENCDEC RTTY BACK	<b>MODE PSK /DATA</b>	
	AGC FAST DELAY	160msec
	AGC MID DELAY	500msec
	AGC SLOW DELAY	1500msec
	PSK TONE	<input checked="" type="button" value="1000Hz"/> <input type="button" value="1500Hz"/> <input type="button" value="2000Hz"/>
	DATA SHIFT (SSB)	1500Hz
	LCUT FREQ	OFF
	LCUT SLOPE	<input type="button" value="6dB/oct"/> <input checked="" type="button" value="18dB/oct"/>

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**RADIO SETTING**

MODE SSB MODE AM MODE FM <b>MODE PSK / DATA</b> MODE RTTY ENCDEC PSK ENCDEC RTTY	<b>MODE PSK / DATA</b>		^
	HCUT FREQ	4000Hz	
	HCUT SLOPE	6dB/oct <b>18dB/oct</b>	
	DATA OUT SELECT	<b>MAIN</b> SUB	
	DATA OUT LEVEL	1	
	TX BPF SEL	50-3050Hz	
	DATA MOD SOURCE	MIC <b>REAR</b>	
	REAR SELECT	<b>DATA</b> USB	
BACK			

FTDX101 MENU

**RADIO SETTING**

MODE SSB MODE AM MODE FM <b>MODE PSK / DATA</b> MODE RTTY ENCDEC PSK ENCDEC RTTY	<b>MODE PSK / DATA</b>		^
	DATA OUT SELECT	<b>MAIN</b> SUB	
	DATA OUT LEVEL	1	
	TX BPF SEL	50-3050Hz	
	DATA MOD SOURCE	MIC <b>REAR</b>	
	REAR SELECT	<b>DATA</b> USB	
	RPORT GAIN	9	
	RPTT SELECT	<b>DAKY</b> RTS <b>DTR</b>	
BACK			

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FTDX101 MENU

**RADIO SETTING**

MODE SSB MODE AM MODE FM MODE PSK / DATA <b>MODE RTTY</b> ENCDEC PSK ENCDEC RTTY	<b>MODE RTTY</b>		^
	AGC FAST DELAY	160msec	
	AGC MID DELAY	500msec	
	AGC SLOW DELAY	1500msec	
	POLARITY RX	<b>NOR</b> REV	
	POLARITY TX	<b>NOR</b> REV	
	LCUT FREQ	300Hz	
	LCUT SLOPE	6dB/oct <b>18dB/oct</b>	
BACK			v

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**RADIO SETTING**

MODE SSB MODE AM MODE FM MODE PSK /DATA <b>MODE RTTY</b> ENCDEC PSK ENCDEC RTTY	<b>MODE RTTY</b>		^
	HCUT FREQ	3000Hz	
	HCUT SLOPE	6dB/oct    18dB/oct	
	RTTY OUT SELECT	MAIN    SUB	
	RTTY OUT LEVEL	50	
	RPTT SELECT	DAKY    RTS    DTR	
	MARK FREQUENCY	1275Hz    2125Hz	
	SHIFT FREQUENCY	170Hz	
BACK		<b>FTDX101 MENU</b>	

**RADIO SETTING**

MODE SSB MODE AM MODE FM MODE PSK /DATA MODE RTTY <b>ENCDEC PSK</b> ENCDEC RTTY	<b>ENCDEC PSK</b>		^
	PSK MODE	BPSK    QPSK	
	DECODE AFC RANGE	8Hz    15Hz    30Hz	
	QPSK POLARITY RX	NOR    REV	
	QPSK POLARITY TX	NOR    REV	
	PSK TX LEVEL	70	
	BACK		<b>FTDX101 MENU</b>

**RADIO SETTING**

MODE SSB MODE AM MODE FM MODE PSK /DATA MODE RTTY ENCDEC PSK <b>ENCDEC RTTY</b>	<b>ENCDEC RTTY</b>		^
	RX USOS	OFF    ON	
	TX USOS	OFF    ON	
	RX NEW LINE CODE	CR , LF , CR+LF	
	TX AUTO CR+LF	OFF    ON	
	TX DIDDLE	OFF    BLANK    LTRS	
	BAUDOT CODE	CC ITT    US	
	BACK		v

**CW SETTING**

<b>MODE CW</b> KEYER DECODE CW	<b>MODE CW</b>	
	AGC FAST DELAY	160msec
	AGC MID DELAY	500msec
	AGC SLOW DELAY	1500msec
	LCUT FREQ	250Hz
	LCUT SLOPE	6dB/oct 18dB/oct
	HCUT FREQ	1200Hz
	HCUT SLOPE	6dB/oct 18dB/oct
BACK		

**FTDX101 MENU**

**CW SETTING**

<b>MODE CW</b> KEYER DECODE CW	<b>MODE CW</b>	<b>HB90AB</b>
	CW OUT SELECT	MAIN SUB
	CW OUT LEVEL	50
	CW AUTO MODE	OFF 50M ON
	CW BK - IN TYPE	SEMI FULL
	CW BK - IN DELAY	200msec
	CW WAVE SHAPE	4msec 6msec 8msec
	CW FREQ DISPLAY	DIRECT FREQ
BACK		

**FTDX101 MENU**

**CW SETTING**

<b>MODE CW</b> KEYER DECODE CW	<b>MODE CW</b>	<b>HB90AB</b>
	CW BK - IN TYPE	SEMI FULL
	CW BK - IN DELAY	200msec
	CW WAVE SHAPE	4msec 6msec 8msec
	CW FREQ DISPLAY	DIRECT FREQ
	PC KEYING	DTR
	OSK DELAY TIME	15msec
	CW INDICATOR	OFF ON
BACK		

CW SETTING

MODE CW <b>KEYER</b> DECODE CW BACK	KEYER	
	F KEYER TYPE	ELEKEY-B
	F KEYER DOT /DASH	NOR REV
	R KEYER TYPE	OFF
	R KEYER DOT /DASH	NOR REV
	CW WEIGHT	3.0
	NUMBER STYLE	1290
	CONTEST NUMBER	1

FTDX101 MENU

CW SETTING

MODE CW <b>KEYER</b> DECODE CW BACK	KEYER	
	CONTEST NUMBER	1
	CW MEMORY 1	TEXT MESSAGE
	CW MEMORY 2	TEXT MESSAGE
	CW MEMORY 3	TEXT MESSAGE
	CW MEMORY 4	TEXT MESSAGE
	CW MEMORY 5	TEXT MESSAGE
	REPEAT INTERVAL	5sec

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FTDX101 MENU

CW SETTING

MODE CW KEYER <b>DECODE CW</b> BACK	DECODE CW	
	CW DECODE BW	100Hz

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OPERATION SETTING

<b>GENERAL</b> RX DSP TX AUDIO TX GENERAL TUNING	GENERAL	
	DECODE RX SELECT	<b>MAIN</b> SUB
	HEADPHONE MIX	<b>SEPARATE</b>
	ANT3 SELECT	<b>RX-ANT</b>
	NB WIDTH	1msec <b>3msec</b> 10msec
	NB REJECTION	10dB <b>30dB</b> 40dB
	BEEP LEVEL	<b>10</b>
	RF /SQL VR	<b>RF</b> SQL
BACK		

FTDX101 MENU

OPERATION SETTING

<b>GENERAL</b> RX DSP TX AUDIO TX GENERAL TUNING	GENERAL	
	TUNER SELECT	<b>INT</b>
	232C RATE	38400bps
	232C TIME OUT TIMER	<b>10msec</b>
	CAT RATE	<b>38400bps</b>
	CAT TIME OUT TIMER	<b>10msec</b>
	CAT RTS	<b>OFF</b> ON
	QMB CH	<b>5ch</b> 10ch
BACK		

HB90AB

FTDX101 MENU

OPERATION SETTING

<b>GENERAL</b> RX DSP TX AUDIO TX GENERAL TUNING	GENERAL	
	MEM GROUP	<b>OFF</b> ON
	QUICK SPLIT INPUT	<b>OFF</b> ON
	QUICK SPLIT FREQ	<b>5kHz</b>
	TX TIME OUT TIMER	8min
	MIC SCAN	OFF <b>ON</b>
	MIC SCAN RESUME	PAUSE <b>TIME</b>
	REF FREQ FINE ADJ	<b>0</b>
BACK		

HB90AB

OPERATION SETTING **FTDX101 MENU**

<b>GENERAL</b>	<b>GENERAL</b>	<b>QUICK SPLIT FREQ</b> <input type="text" value="5kHz"/> <b>HB9OAB</b>
RX DSP	TX TIME OUT TIMER	<input type="text" value="8min"/>
TX AUDIO	MIC SCAN	<input type="button" value="OFF"/> <input checked="" type="button" value="ON"/>
TX GENERAL	MIC SCAN RESUME	<input type="button" value="PAUSE"/> <input checked="" type="button" value="TIME"/>
TUNING	REF FREQ FINE ADJ	<input type="text" value="0"/>
	CS DIAL	<input type="text" value="DNR LVL"/>
	KEYBOARD LANGUAGE	<input type="text" value="ITALIAN"/>
<b>BACK</b>		

OPERATION SETTING

<b>GENERAL</b>	<b>RX DSP</b>	<b>APF WIDTH</b> <input type="button" value="NARROW"/> <input checked="" type="button" value="MEDIUM"/> <input type="button" value="WIDE"/>
<b>RX DSP</b>	CONTOUR LEVEL	<input type="text" value="20"/>
TX AUDIO	CONTOUR WIDTH	<input type="text" value="1"/>
TX GENERAL	DNR LEVEL	<input type="text" value="2"/>
TUNING	IF NOTCH WIDTH	<input type="button" value="NARROW"/> <input checked="" type="button" value="WIDE"/>
<b>BACK</b>		

**FTDX101 MENU**

OPERATION SETTING

<b>GENERAL</b>	<b>TX AUDIO</b>	<b>PROC LEVEL</b> <input type="button" value="COMP"/> <input checked="" type="button" value="AMC"/>
RX DSP	AMC RELEASE TIME	<input type="button" value="FAST"/> <input checked="" type="button" value="MID"/> <input type="button" value="SLOW"/>
<b>TX AUDIO</b>	PRMTRC EQ1 FREQ	<input type="text" value="400Hz"/>
TX GENERAL	PRMTRC EQ1 LEVEL	<input type="text" value="5"/>
TUNING	PRMTRC EQ1 BWTH	<input type="text" value="5"/>
	PRMTRC EQ2 FREQ	<input type="text" value="1500Hz"/>
	PRMTRC EQ2 LEVEL	<input type="text" value="7"/>
<b>BACK</b>		

OPERATION SETTING

GENERAL RX DSP <b>TX AUDIO</b> TX GENERAL TUNING  BACK	TX AUDIO		^
	PRMTRC EQ2 BWTH	5	FTDX101 MENU
	PRMTRC EQ3 FREQ	2500Hz	
	PRMTRC EQ3 LEVEL	5	
	PRMTRC EQ3 BWTH	5	
	P PRMTRC EQ1 FREQ	300Hz	
	P PRMTRC EQ1 LEVEL	4	
	P PRMTRC EQ1 BWTH	3	

OPERATION SETTING

GENERAL RX DSP <b>TX AUDIO</b> TX GENERAL TUNING  BACK	TX AUDIO		^
	P PRMTRC EQ1 BWTH	3	HB9OAB FTDX101 MENU
	P PRMTRC EQ2 FREQ	1500Hz	
	P PRMTRC EQ2 LEVEL	8	
	P PRMTRC EQ2 BWTH	3	
	P PRMTRC EQ3 FREQ	2700Hz	
	P PRMTRC EQ3 LEVEL	4	
	P PRMTRC EQ3 BWTH	3	

OPERATION SETTING

GENERAL RX DSP TX AUDIO <b>TX GENERAL</b> TUNING  BACK	TX GENERAL		^
	HF MAX POWER	200W	HB9OAB FTDX101 MENU
	50M MAX POWER	200W	
	70M MAX POWER	50W	
	AM MAX POWER	50W	
	VOX SELECT	MIC DATA	
	DATA VOX GAIN	10	
	EMERGENCY FREQ TX	OFF ON	

OPERATION SETTING

- GENERAL
- RX DSP
- TX AUDIO
- TX GENERAL
- TUNING**

TUNING

SSB/CW DIAL STEP	5Hz	<b>10Hz</b>	
RTTY/PSK DIAL STEP	5Hz	<b>10Hz</b>	
CH STEP	2.5kHz		
AM CH STEP	5kHz		
FM CH STEP	5kHz		
MAIN STEPS PER REV.	250	<b>500</b>	1000
MPVD STEPS PER REV.	250	<b>500</b>	

BACK

FTDX101 MENU

DISPLAY SETTING

- DISPLAY**
- SCOPE
- EXT MONITOR

DISPLAY

HB90AB

MY CALL	HB90AB
MY CALL TIME	1sec
SCREEN SAVER	15min
TFT CONTRAST	10
TFT DIMMER	12
LED DIMMER	10
MOUSE POINTER SPEED	10

BACK

DISPLAY SETTING

- DISPLAY**
- SCOPE
- EXT MONITOR

DISPLAY

MY CALL TIME	1sec	
SCREEN SAVER	15min	
TFT CONTRAST	10	
TFT DIMMER	12	
LED DIMMER	10	
MOUSE POINTER SPEED	10	
FREQ STYLE	LIGHT	<b>BOLD</b>

BACK

DISPLAY SETTING

SCOPE

RBW **HIGH** MID LOW

SCOPE CTR **CAR POINT** FILTER

2D DISP SENSITIVITY NORMAL **HI**

3DSS DISP SENSITIVITY NORMAL **HI**

**FTDX101 MENU**  
**HB90AB**

BACK

DISPLAY SETTING

EXT MONITOR

EXT DISPLAY **ON** OFF

PIXEL **800x480** 800x600

**FTDX101 MENU**  
**HB90AB**

BACK

EXTENSION SETTING

DATE&TIME

DAY 02

MONTH FEB

YEAR 2022

HOUR 17

MINUTE 45

**FTDX101 MENU**  
**HB90AB**

BACK

**EXTENSION SETTING**

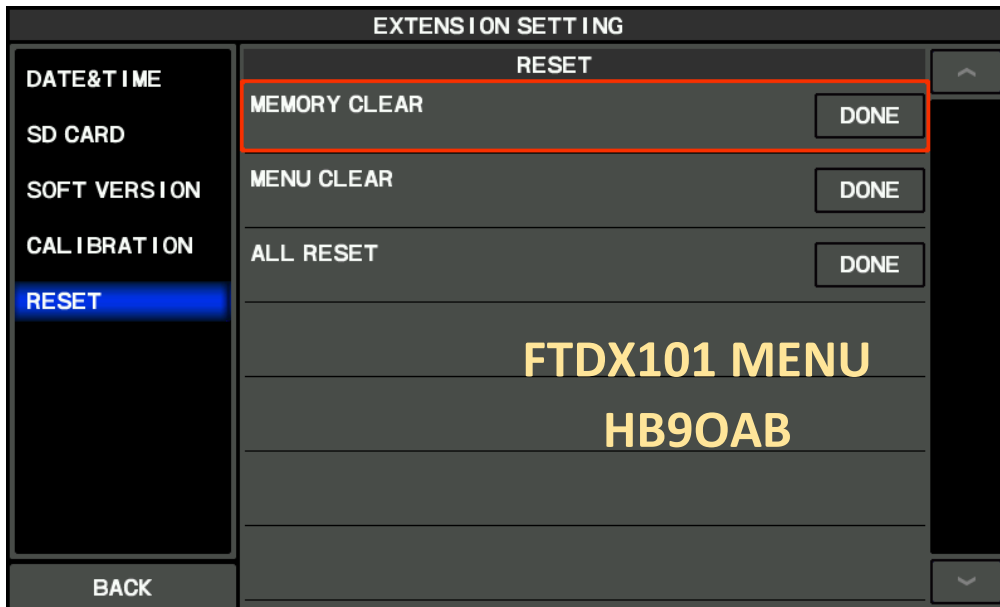
DATE&TIME <b>SD CARD</b> SOFT VERSION CALIBRATION RESET	<b>SD CARD</b>		^
	MEM LIST LOAD	DONE	
	MEM LIST SAVE	DONE	
	MENU LOAD	DONE	
	MENU SAVE	DONE	
	<b>INFORMATION</b>	<b>DONE</b>	
	FIRMWARE UPDATE	DONE	
FORMAT	DONE	v	
<b>BACK</b>			

**EXTENSION SETTING**

DATE&TIME SD CARD <b>SOFT VERSION</b> CALIBRATION RESET	<b>SOFT VERSION</b>	
	MAIN : V01-22	<b>FTDX101 MENU</b> <b>HB90AB</b>
	DISPLAY : V01-08	
	MAIN DSP : V01-07	
	SUB DSP : V01-07	
	MAIN SDR : V02-06	
	SUB SDR : V02-06	
	AF DSP : V01-00	
<b>BACK</b>		

**EXTENSION SETTING**

DATE&TIME SD CARD SOFT VERSION <b>CALIBRATION</b> RESET	<b>CALIBRATION</b>		^
	<b>CALIBRATION</b>	<b>DONE</b>	
	<b>FTDX101 MENU</b>		
	<b>HB90AB</b>		
<b>BACK</b>		v	



As specified, this is just an initial setup idea.

Obviously then you can customize everything as you want depending on your radio / computer setup and various peripherals.

Here connected only through the software [FTDX101CAT & SPLITTER](#) and [WLOG2000](#) with all the data traffic on the PORT-USB connection behind, both for AUDIO and the two COM CAT.

I use a further connection of "virtual COM ports" VSPE and OMNIRIG in parallel, all at the same time and together, in order to completely use all the software on the PC with these two "virtual drivers" without always having to change the COMx PORT but keeping them the same for all applications.

A further explanation of how to use these drivers (VSPE and OMNIRIG) can be found in the PDF section of the FTDX101.