

P/N 820-TCH0-000

1) Power On/Off & Volume Control Knob

Turn this knob clockwise to switch on. The more you turn this knob clockwise, the bigger the audio sound grows.

www.ttikorea.co.kr

2) Squelch Adjuster and DSS (Dynamic Squelch Tuning System)

DSS: Default. The squelch level of your transceiver is dynamically adjust to get the best receive

Squelch Adjuster: Turn this knob clockwise to the max. Turn counter-clockwise until you hear background noise and then turn the knob to the opposite direction until the noise disappears.

3) Emergency Button

Press this button to go to emergency channel (9 or 19). To return to the previous operation mode, press EMG button again.

While pressing this button, you can transmit. The Red LED lights during the PTT press.

5) Backlighting & Scan Button

Short press to change backlighting color (Red / Green / Amber / Off)

Long press to activate/deactivate channel scan. While scanning, press Up/Down button to change

6) Menu / Lock Button

Short press to access menu mode. Use the Up/Down button to change the setting. Long press to activate/deactivate keypad lock function.

<menu></menu>		
Display	Functions	Settings
bn	Band	See next band chart
0	Power	FM : High and Low AM : Low only
гЬ	Roger Beep Tone	On and Off
bР	Key Beep Tone	On and Off
Uo	VOX	Off, Low, Middle, High

Our Thanks to You

Thank you for purchasing a TTI CB TRANSCEIVER radio.

Properly used this TTI product will give you many years of reliable service.

All our products are built to offer excellent value by combining advanced features, great design and

To ensure you are familiar with the operation and features of your radio, and in order to obtain the best performance, please read this manual carefully before operation.

1. Supplied Accessories

TCB-H100 is supplied with a full range of accessories to help you get started and virtually benefit from all the features straight away.

> Charger Package

<BAND Chart>

Settina

EC

EU

D

12

UE(EU/UK)

IJK

PL

F

Е

7) Channel Up/Down Button Short press to change channel. Long press to speed up channel change.

8) Echo & AM/FM Button

Long press to switch AM/FM mode. 9) Signal Strength Meter (S-RF)

Short press to activate/deactivate Echo TX sound.

Low transmitting power shows four S-RF meters. High transmitting power shows full eight S-RF meters.

While receiving signal, actual reception signal strength is on display.

In case Low battery, LED and battery indicator are blinking with alert sound for every 15 seconds.

TCR-H100 transceiver 1unit Antenna 1unit Li-lon rechargeable battery 1unit Charging cradle Power cable 1unit Belt clip 1unit > Battery Eliminator Package

TCR-H100 transceiver 1unit Battery Fliminator 1unit with Antenna connector and Belt clip



Display

EC

ELI

d

12

UE

UH

PL



Settings

Europe 40ch. FM 4W

Europe 40ch, AM/FM 4W

Italy 34ch, AM/FM 4W

Italy 40ch. AM/FM 4W

+ CEPT 40ch. FM 4W(EC)

Poland 40ch. AM/FM 4W

Spain 40ch. AM/FM 4W

(Polish Frequencies : 5KHz)

Germany 80ch, FM 4W, 40ch, AM 4W

UK 40ch. FM 4W (British Frequencies)

UK 40ch. FM 4W (British Frequencies)

France 40ch. FM 4W, 40ch AM 4W

> Removal

- 1) Connect the power adaptor to the main power supply and connect the adaptor charger jack to

2. Fitting the Battery Pack / Battery Eliminator

Ensure that your radio is switched off.

Ensure that your radio is switched off. Press down on the battery release catch

and separate the battery pack from the radio.

you hear the snapping sound.

Align the battery pack with the battery guide

and Slide the battery pack up to the top until

- 4) The battery charging time is about 4-5 hours. When the battery is fully charged the charger LED will turn green.

Power Adaptor

- Input : 230VAC
- Output : 12VDC 1Ah

- Upon the red LED blinking, there is a doubt on the battery quality.
- Upon the orange LED blinking, there is a doubt on the high temperature of the battery. In this case, separate the battery from the cradle and try again after cooling.

3. Battery Charging

- the charging cradle.
- 2) Disconnect any radio accessories and ensure the radio is switched off.
- Insert the radio into the charging cradle until it clicks home. The charger LED will glow red and charging will start. If the charger LED blinks red or green or the charger LED does not light, re-insert the radio into the charging cradle.

If you experience problems with your TCB-H100, first check the battery power level or connection of battery eliminator as low batteries can cause problems such as poor transmission, weak reception and reduced sound quality. Then check the manual and radio display to ensure that a function (such

In case of further difficulty, please consult your dealer or visit our website at www.ttikorea.co.kr.

For charging the rechargeable battery, only a CE approved AC adaptor complying with the following

For direct operation by battery eliminator, following cigar adaptor must be used.

OUTPUT: 12VDC 3Ah

7. Specifications

4. Transceiver Controls, Display and Functions

Antenna

TY / RY

PTT Button -

/ Low battery alert LED

Backlighting (Short press)

Scan Button (Long press)

Menu (Short press)

Lock (Long press)

Signal Strength Meter

Roger Beep -

Lock -

Squelch Adjuster & DSS Knob

[P1] [P2] [P3] [P4]

Power & Volume Control Knob

Emergency Button

Accessory Jack

Echo (Short press)

AM/FM (Long press)

External Accessory

Speaker

Display

Emergency - Echo

- DSS

(I) EMG DSS TIEST

Band Low Power AM Mode FM Mode

Size Weight Antenna Connector Power Output Modulation Frequency Response Output Impedance Harmonic Suppression Current Drain Receiving System IF Frequencies Sensitivity Receiving System Inage Rejection Audio Output Power Audio Distortion Less than 8% @ 1KHz Image Rejection Adjacent Channel Rejection Conducted Spurious Frequency Response Built-in Speaker Squelch System Sys					
Operating mode Frequency Control Frequency Tolerance Operating Temperature Range Power Supply Frequency Tolerance Operating Temperature Range Frequency Rusply Frequency Response Output Impedance Frequency Response Built-in Speaker Squelch Adjustable; Threshold less than 1,µV		Channel	40 (See the frequency band chart)		
Frequency Control Frequency Tolerance Operating Temperature Range Power Supply Size Frequency Tolerance Operating Temperature Range Frequency Size Frequency Tolerance Operating Temperature Range Frequency Supply Frequency Response Output Impedance Frequency Response Frequency Response Frequency Response Frequency Response Frequency Response Frequency Response Built-in Speaker Squelch Adjustable; Threshold less than 1 \(\rho\text{V}\text{V}\text{V}\text{Interpolation} \) Adjustable; Threshold less than 1 \(\rho\text{V}\text{V}\text{V}\text{V}\text{Interpolation} \) Adjustable; Threshold less than 1 \(\rho\text{V}\text{V}\text{V}\text{V}\text{V}\text{Interpolation} \) Adjustable; Threshold less than 1 \(\rho\text{V}\text{V}\text{V}\text{V}\text{V}\text{V}\text{Interpolation} \) Frequency Response		Frequency Range	26.56 MHz ~ 28 MHz		
Power Supply 7.4V (L1-Ion Battery) 12/24VDC (Battery Elimina Size 57 (W) x 116 (H) x 39 (D)		Operating mode	F3E (FM), A3E (AM)		
Power Supply 7.4V (LI-Ion Battery) 12/24VDC (Battery Elimina Size 57 (W) x 116 (H) x 39 (D)	Ģ	Frequency Control	PLL Synthersizer		
Power Supply 7.4V (LI-Ion Battery) 12/24VDC (Battery Elimina Size 57 (W) x 116 (H) x 39 (D)	NER	Frequency Tolerance	0.002%		
Power Supply 7.4V (L1-Ion Battery) 12/24VDC (Battery Elimina Size 57 (W) x 116 (H) x 39 (D)		Operating Temperature Range	-10 to +55 ℃		
Weight Antenna Connector Power Output Modulation AM: from 85% to 95% FM: 1.8KHz ± 0.2KHz Frequency Response Output Impedance Harmonic Suppression Current Drain Receiving System IF Frequencies Sensitivity Dual conversion superhterodyne IF Frequencies Double conversion 1st 10.695MHz/2nd 455KHz Sensitivity 1.4½V for 10dB(S+N)/N in AM Mode 0.8½V for 20dB SINAD in FM Mode Audio Output Power Audio Distortion Image Rejection Adjacent Channel Rejection Conducted Spurious Frequency Response Built-in Speaker Squelch Antenna 224 grams with Battery pack SMA type SMA type Duty cycle 10% 4 Watts @ 13.2V DC AM: from 85% to 95% FM: 1.8KHz ± 0.2KHz Built no 300Hz Dubly cycle 10% 4 Watts @ 13.2V DC AM: from 85% to 95% FM: 1.8KHz ± 0.2KHz Built no 300Hz Dubly cycle 10% 4 Watts @ 13.2V DC AM: from 85% to 95% FM: 1.8KHz ± 0.2KHz Built no 300Hz Dubly cycle 10% 4 Watts @ 13.2V DC AM: from 85% to 95% FM: 1.8KHz ± 0.2KHz Bullt no 300Hz Dubly cycle 10% 4 Watts @ 13.2V DC AM: from 85% to 95% FM: 1.8KHz ± 0.2KHz Bullt no 300Hz Dubly cycle 10% 4 Watts @ 13.2V DC AM: from 85% to 95% FM: 1.8KHz Bullt no 300Hz Dubly cycle 10% 4 Watts @ 13.2V DC AM: from 85% to 95% FM: 1.8KHz Bullt no 300Hz Dubly cycle 10% 4 Watts @ 13.2V DC AM: from 85% to 95% FM: 1.8KHz Bullt no 300Hz Dubly cycle 10% 4 Watts @ 13.2V DC AM: from 85% to 95% FM: 1.8KHz Bullt no 300Hz Dubly cycle 10% 4 Watts @ 13.2V DC AM: from 85% to 95% FM: 1.8KHz Bullt no 300Hz Dubly cycle 10% 4 Watts @ 13.2V DC AM: from 85% to 95% FM: 1.8KHz Bullt no 300Hz Bullt no 300Hz Bu	A L	Power Supply	7.4V (Li-lon Battery) 12/24VDC (Battery Eliminator)		
Antenna Connector Power Output Modulation AM: from 85% to 95% FM: 1.8KHz ± 0.2KHz Frequency Response Output Impedance Harmonic Suppression Current Drain Receiving System IF Frequencies Sensitivity Dual conversion superhterodyne IF Frequencies Double conversion 1st 10.695MHz/2nd 455KHz Sensitivity 1.4µV for 10dB(S+N)/N in AM Mode 0.8µV for 20dB SINAD in FM Mode Audio Output Power Audio Distortion Image Rejection Adjacent Channel Rejection Conducted Spurious Frequency Response Built-in Speaker Squelch AM: from 85% to 95% FM: 1.8KHz ± 0.2KHz Double to 300Hz Double conversion superhterodyne Double conversion 1st 10.695MHz/2nd 455KHz Double conversion 1st 10.695MHz/2nd 455KHz Double conversion 1st 10.695MHz/2nd 455KHz More 10dB(S+N)/N in AM Mode 0.8µV for 20dB SINAD in FM Mode 1W @ 16ohm Adjacent Channel Rejection More than 60dB Conducted Spurious Frequency Response 300Hz to 2500Hz Built-in Speaker 16ohms, Round Adjustable; Threshold less than 1µV		Size	57 (W) x 116 (H) x 39 (D)		
Power Output Power Output		Weight	224 grams with Battery pack		
Modulation AM: from 85% to 95% FM: 1.8KHz ± 0.2KHz Frequency Response Output Impedance Harmonic Suppression Current Drain Receiving System IF Frequencies Sensitivity Double conversion 1st 10.695MHz/2nd 455KHz Sensitivity 1.4µV for 10dB(S+N)/N in AM Mode 0.8µV for 20dB SINAD in FM Mode 1W @ 16ohm Addio Distortion Less than 60dB Adjacent Channel Rejection More than 60dB Frequency Response Built-in Speaker Squelch Adjustable; Threshold less than 1µV		Antenna Connector	SMA type		
Frequency Response Output Impedance Harmonic Suppression Current Drain Receiving System IF Frequencies Sensitivity Double conversion superhterodyne IF Frequencies Sensitivity 1.4µV for 10dB(S+N)/N in AM Mode 0.8µV for 20dB SINAD in FM Mode Adjacent Channel Rejection More than 60dB Adjacent Channel Rejection Conducted Spurious Frequency Response Built-in Speaker Squelch A000 AUDIA TO 300Hz to 300Hz Square 10 Audia Output Power Audio Distortion Less than 8% @ 1KHz More than 60dB Adjacent Channel Rejection Adjacent Channel Rej		Power Output	Duty cycle 10% 4 Watts @ 13.2V DC		
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Receiving System IF Frequencies Sensitivity Dual conversion superhterodyne IF Frequencies Double conversion 1st 10.695MHz/2nd 455KHz Sensitivity 1.4½V for 10dB(S+N)/N in AM Mode 0.8½V for 20dB SINAD in FM Mode 1W @ 16ohm Audio Distortion Less than 8% @ 1KHz Image Rejection More than 60dB Conducted Spurious Frequency Response Built-in Speaker Squelch Adjustable; Threshold less than 1½V	Ę	Harmonic Suppression	Less than -54dBm		
IF Frequencies Sensitivity Double conversion 1st 10.695MHz/2nd 455KHz 1.4µV for 10dB(S+N)/N in AM Mode 0.8µV for 20dB SINAD in FM Mode 1W @ 16ohm Audio Output Power Audio Distortion Less than 8% @ 1KHz Image Rejection More than 60dB Adjacent Channel Rejection Conducted Spurious Frequency Response Built-in Speaker Squelch Double conversion 1st 10.695MHz/2nd 455KHz 1.4µV for 10dB(S+N)/N in AM Mode 0.8µV for 20dB SINAD in FM Mode 1W @ 16ohm More than 60dB 1W @ 16ohm More than 60	K	Current Drain	AM Full Mod. 1.6A Max.		
Sensitivity 1.4/\(\nu\) for 10dB(S+N)/N in AM Mode 0.8/\(\nu\) for 20dB SINAD in FM Mode Audio Output Power Audio Distortion Less than 8% @ 1KHz Image Rejection Adjacent Channel Rejection Conducted Spurious Frequency Response Built-in Speaker Squelch 1.4/\(\nu\) for 10dB(S+N)/N in AM Mode 0.8/\(\nu\) for 20dB SINAD in FM Mode Nore than 60dB Less than 60dB Less than -57dBm Frequency Response 300Hz to 2500Hz Built-in Speaker Adjustable; Threshold less than 1\(\nu\)		Receiving System	Dual conversion superhterodyne		
R Audio Output Power 1W @ 16ohm Audio Distortion Less than 8% @ 1KHz Image Rejection More than 60dB Adjacent Channel Rejection More than 60dB Conducted Spurious Less than -57dBm Frequency Response 300Hz to 2500Hz Built-in Speaker 16ohms, Round Squelch Adjustable; Threshold less than 1µV		IF Frequencies	Double conversion 1st 10.695MHz/2nd 455KHz		
Audio Distortion Eass than 8% @ 1KHz Image Rejection Adjacent Channel Rejection Conducted Spurious Frequency Response Built-in Speaker Squelch Adjustable; Threshold less than 1µN	RECE-VER	Sensitivity			
Frequency Response 300Hz to 2500Hz Built-in Speaker 16ohms, Round Squelch Adjustable; Threshold less than 1\(\text{t}\text{N}\text{V}\)		Audio Output Power	1W @ 16ohm		
Frequency Response 300Hz to 2500Hz Built-in Speaker 16ohms, Round Squelch Adjustable; Threshold less than 1\(\text{t}\text{N}\text{V}\)		Audio Distortion	Less than 8% @ 1KHz		
Frequency Response 300Hz to 2500Hz Built-in Speaker 16ohms, Round Squelch Adjustable; Threshold less than 1\(\text{t}\text{N}\text{V}\)		Image Rejection	More than 60dB		
Frequency Response 300Hz to 2500Hz Built-in Speaker 16ohms, Round Squelch Adjustable; Threshold less than 1\(\text{t}\text{N}\text{V}\)		Adjacent Channel Rejection	More than 60dB		
Built-in Speaker 16ohms, Round Squelch Adjustable; Threshold less than 1 \(\rho V\)		Conducted Spurious	Less than -57dBm		
Squelch Adjustable; Threshold less than 1μV		Frequency Response	300Hz to 2500Hz		
		Built-in Speaker	16ohms, Round		
1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		Squelch	Adjustable; Threshold less than $1\mu N$ DSS; Less than $2\mu N$		

^{*} Specification is subject to change without prior notice.

5. Trouble Shooting

as VOX or Lock) has not been activated by accident. 1) Switch off the transceiver. 2) Press and hold PTT button and Backlighting button, switch on the transceiver. 3) Wait for a while until reset display appears.

All the memories are erased by this reset and the parameters return to the initial factory setting.

6. Safety Requirement

INPUT: 230VAC 50Hz OUTPUT: 12VDC 1Ah

INPUT: 12/24VDC

10. Restrictions on the use

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Country			Band			Use restrictions and other comments			
BELGIUM		EU	F		EC	40 Ch - 4W FM - Individual licence is required			
SWITZERLAND		LU				40 Ch - 4W AM - Individual licence is required			
DENMARK,NORWAY LUXEMBOURG,CZECH					EC	40 Ch - 4W FM - Free use			
FINLAND,PORTUGAL		EU	F		EC	40 Ch - 4W FM - Free use			
FRANCE, NETHERLANDS		EU				40 Ch - 4W AM - Free use			
GERMANY						80 Ch - 4W FM - Individual licence is required			
	D					40 Ch - 4W AM - Individual licence is required			
		EU				40 Ch - 4W AM - Use ch 4-15 only			
	D2				EC	40 Ch - 4W FM - Free use			
						12 Ch - 4W AM - Individual licence is required			
	fx A	fx Allowed: from 26.960 to 27.410 MHz "BAPT 222 ZV 104"							
GREECE					EC	40 Ch - 4W FM - Free use			
	Е	EU	F	-1		40 Ch - 4W AM - Free use			
	T/R	T/R 20-02							
IRELAND					EC	40 Ch - 4W FM - Free use			
	Е	EU	F	I		40 Ch - 4W AM - Free use			
	S.I. No 436 of 1998. WIRELESS TELEGRAPHY ACT, 1926 (SECTIONS) (EXEMPTION OF CITIZENS' BAND (CB) RADIOS) ORDER, 1998								
ITALV	(EXI	EU	F	I	EC	· · · · · · · · · · · · · · · · · · ·			
ITALY	Е				EU	40 Ch - 4W FM - General authorization is required			
						40 Ch - 4W AM - General authorization is required			
				12		34 Ch - 4W FM			
						34 Ch - 4W AM(ERP) *AM mode allowed on ch1-23 only			
	PNF issued on DM 08.07.02 NOTES 49 A-B-C-D-E-G								
SPAIN	Е	EU F	F		EC	40 Ch - 4W FM - Individual licence is required			
	_					40 Ch - 4W FM - Individual licence is required			
	Art.	Art. 57 - Law 11/1998 dated 24th April							
SWEDEN		EU	F		EC	40 Ch - 4W FM - Free use			
						40 Ch - 4W AM - Individual licence is required			
UK	UK	FII			EC	40 Ch - 4W FM - Free use			
		EU				40 Ch - 4W AM - Free use			
POLAND	PL	EU			EC	40 Ch - 4W FM / AM - Free use			
			_	_					

<< Declaration of Conformity >>

We, TTI Tech Co., Ltd. (B-912, Indeokwon IT Valley, 40 Imi-ro, Uiwang-si, Gyeonggi-do, Korea) declare on our sole responsibility that this equipment complies with the essential requirements of the Radio Equipment Directive (RED) 2014/53/EU, and that any applicable Essential Test Suite measurements have been performed.

Kind of equipment: HANDHELD CB TRANSCEIVER

Type-designation : TCB-H100

Version (where applicable) :

This complicance is based on conformity with the following standards, specifications or documents:

EN 62311:2008
EN 300 433
EN 301 489-1
EN 301 489-13
EN 60950-1:2006+A11:2009

+A1:2010+A12:2011+A2:2013

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N. Y. Kim Director

Korea, Dec. 31, 2019

Signature