

Button Layout

CB300-D 900MHz Digital Call Box



Overview (1 of 2)

CB300-D 900MHz Digital Call Box

- DTR Protocol / 900MHz ISM Band
- For communication with DLR and DTR
- One button press operation
- Customizable local and radio message
- Use LCD & Keypad on Call Box to configure
- Also support programming through micro USB port
- 3MTM DUAL LOCKTM adhesive strips
- Mounting clip



Overview (2 of 2)

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Installation Requirements

Installing CB300-D CPS and Driver

Installation

- 1. Install the serial driver for 64bit OS from:
 - a. https://www.ftdichip.com/Drivers/CDM/CDM%20v2.12.28%20WHQ L%20Certified.zip
- 2. Install the serial driver for **32bit** OS from:
 - a. https://www.ftdichip.com/Drivers/CDM/CDM%20v2.12.28%20WHQ L%20Certified.zip
- 3. Install CB300-D CPS from:
 - a. <u>https://www.motorolasolutions.com/en_us/products/two-way-radio-accessories/call-boxes/retail-call-boxes/cb3</u> 00-digital-retail-call-box.html#tabresource

Note: During the installation, if you experience the antivirus pop up, ensure to click Next/Ignore/Bypass the warning.





Wave File Requirements (recording voice files)

Motorola recommends that you download Audacity as a free Wave File creator to use

Preparing the Wave Files

Preparing the wave files. There are 3 wave files:

Local Message

- Local Message is the message playback when the Call Box is pressed.

Radio Message

- Radio message is the message send to the radio to notify which Call Box has been pressed.

Low Battery Message

- Message send to the radio to notify the Call Box is low on battery.

The file name will need to rename as below. Local Message: local.wav Radio Message: radio.wav Low Battery Message: lowbatt.wav

Note: The recorded wave file must be in this format: Sample Rate: 11.025kHz 16 Bit Mono Message Length <10 sec

Programmer Overview



Where to order?

It is setup in Motorola MOL system. Part #: DSEAPROG2 Description: EASY ASSIST PROGRAMMER VER 2

Audio Quality

The audio recording loudness is depending on your speaker volume. The suggested volume should adjust around 50-75% of your speaker volume.



Software Overview

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CB300-D Software Interface

Motorola Solutions CB300D DLR Message Programmer

	Motorola So	lutior	ns CB300D DL	R Message Progra	mmer			
Message Selection		Read Variables			EEProm Values Write Variables			
r:\	Head Variables			Write Vanables				
Message Directory Location	CHANNEL	1	Value: 1-6	CHANNEL	1	Value: 1-6	WRITE CHANNEL	
T Radio Msg	PROFILE ID	0000	Value: 0000-9999	PROFILE ID	1234	Value: 0000-9999	WRITE PROFILE ID	
F Aux Btn Msg	SPEAKER VOLUME	17	Value:1-63	SPEAKER VOLUME	45	Value:1-63 1=Lowest Vol	WRITE SPEAKER VOLUME	
Low Battery	RADIO VOLUME	17	Value:1-63	RADIO VOLUME	45	Value:1-63 1=Lowest Vol	WRITE RADIO VOLUME	
PROGRAM MESSAGES	ISD VOLUME	0	Value: 0-6 0=Highest Volume	ISD VOLUME		Value: 0-6 0=Highest Volume	WRITE ISD VOLUME	
Message Directory Location (Double-Click to Select)	CALL CYCLES	2	Value: 1-30	TOTAL CALL CYCLES	3	Value: 1-30	WRITE CALL CYCLE	
	CYCLE DELAY (sec)	45	Value: 10-180 sec	CYCLE DELAY (sec)	30	Value: 10-180 sec	WRITE CYCLE DELAY	
Ben	LED COLOR	3	BLUE	LED COLOR (1-4)			WRITE LED COLOR	
intel Ntutils	LED PATTERN	2	Logo Only	LED PATTERN (1-3)	1	All On	WRITE LED PATTERN	
PerfLogs Program Files Program Files (x86) SWSetup V	READ ALL VALUES			Note: ISD MASTER Volume will change both the local speaker and RF radio volume.				
ailable Comm Ports								
Exit	CB300D Software Versio	n 🔽	cb3.11d					
					St	atus Messages	cb300d_	
			13:39:0 13:39:0	18 Total Comm Ports Found 13 Total Comm Ports Found 11 CB300D Comm Fail 17 CB300D Comm Fail			î	
	OLUTIONS		13:38:2 13:38:1	3 Total Comm Ports Found 9 CB300D Comm Fail 8 Total Comm Ports Found				

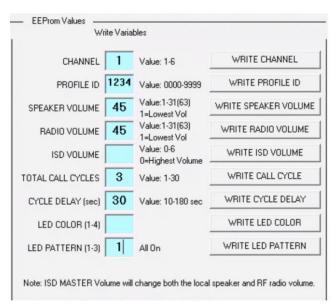
NOTICE

- The Call Box has 60 secs timeout. If no action (read/write to Call Box) taken, it will goes to sleep. The battery casing will need to remove to discharge and place it back.
- Once power is apply, the LED flashes 3 times
- Verify the display shows CPU SERIAL ENA, then it is ready for programming.



MUST click the "write" button next to each setting to overwrite. There is no master "write" feature.

CB300-D Software Interface



Channel - Radio channel that you wanted to send

Profile ID Pin - 4 digits pins that you select for the DLR/DTR radios

Speaker Volume - Call Box volume (Default: 50)

Radio Volume - Message loudness that send to your radio (Default: 20)

ISD Volume - Master volume for all volume

Total Call Cycles - How many times do you want to repeat the message sending over to the radio (Default: 2 cycles)

Cycle Delay - Delay period between 2 Call Cycles (Default: 45sec)

LED Pattern - 1 is all on (MSI logo & side) and 2 is Motorola Logo on only.

Loading pre-recorded Wave File Messages

CB300-D Software Interface



- 1. Have all the audio files store in 1 folder for easier access.
- 2. Check the box next to the message for the voice programming.
- Click on the PROGRAM MESSAGES button for voice recording.
- 4. To verify if it is programmed, press
 - a. ESC key on the Call Box
 - b. Up Arrow until MSG PLAYBACK is display
 - c. Select each programmed message for playback.

Must save files under a newly created folder on the local disk (c: drive) in order to find them at this screen (see file requirements above)

CB300-D Literature

- 1. Product User Manual and Programming Manual:
 - a. https://www.motorolasolutions.com/en_us/products/two-way-radio-accessories/call-boxes/retail-call-boxes/cb300-digital-retail-call-box.html#tabresource

