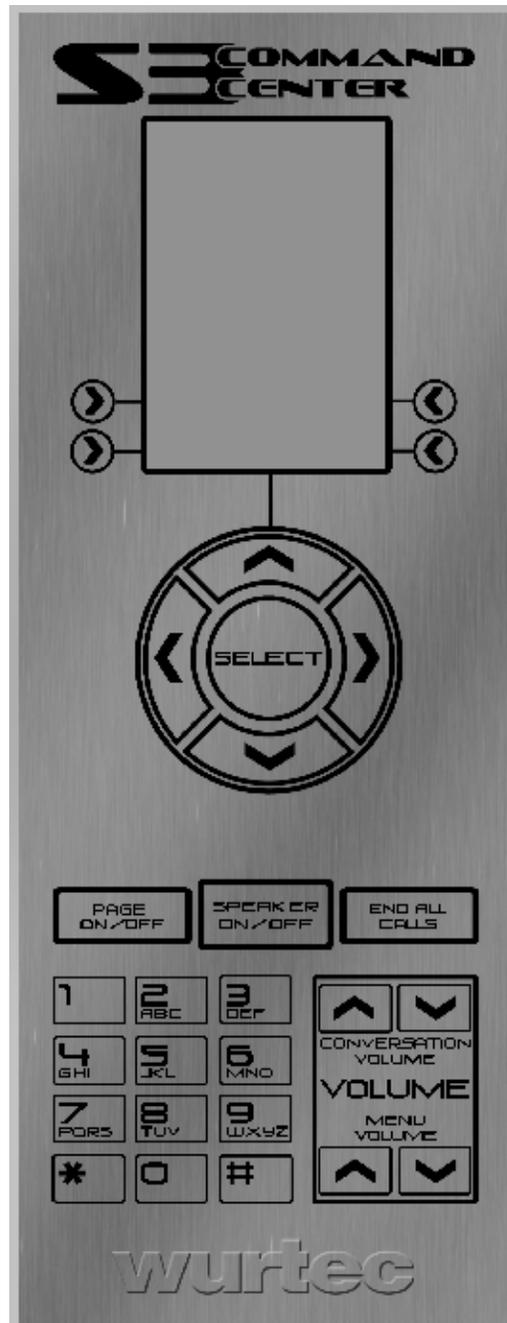


WURTEC, INC.
6200 BRENT DR. TOLEDO, OH 43611



GENERAL WARNINGS

1. Use only manufacturer-approved DC power supply for external power source.
2. Use only manufacturer-approved battery for backup power source.
3. Ambient temperature not to exceed 0° C to 40° C.
4. Remove both the external power and the battery power supplies when performing maintenance or upgrading equipment.

11-598-CC COMMAND CENTER PACK LIST

- (1) Command Center enclosure p/n: **11-598-CC**
- (1) Battery p/n: **SP12-9**
- (1) Battery cable p/n: **10049004**
- (1) Power supply assembly with power cord p/n: **10049005**

11-10044346 FXS LINE CARD KIT PACK LIST

- (1) FXS line card p/n: **11-701**
- (2) Card guide p/n: **CBG-2-01**
- (2) Screw terminal plug p/n: **284506-2**

11-10044347 2FXS LINE CARD KIT PACK LIST

- (1) 2FXS line card p/n: **11-10002047**
- (2) Card guide p/n: **CBG-2-01**
- (2) Screw terminal plug p/n: **284506-2**

DESCRIPTION AND INTENDED USE

The Wurtec **S3 Command Center** is a telecommunications device capable of placing and connecting calls between emergency elevator telephones and services on a PSTN. The Wurtec S3 Command Center along with the Wurtec S3 Communicator emergency elevator telephones are designed to fulfill the communications safety requirements for elevators as described in the ASME A17.1 elevator safety code.

The S3 Command Center is intended to be installed and operated in a temperature-controlled, low-humidity, low-ambient audible noise environment that is protected from dirt and airborne particles.

INSTALLATION TOOLS REQUIRED

1. 3/32" slot screwdriver
2. Wire strippers/cutters – typically 24-22 AWG dependent on cable used at installation site

PROTECTIVE GEAR REQUIRED

1. Safety glasses
2. ESD strap

PHYSICAL SETUP

1. Location / mounting arrangements

- a. Typically located in the lobby, security desk, machine room, or fire command room, but not limited to these locations.
- b. Must be mounted vertically in an indoor temperature-controlled area.
 - i. Operating Temp: 0-40° C

2. Electrical requirements & connections

- a. External power: 24V
- b. External current: Max. 3A
- c. Battery Voltage: 12VDC
- d. Battery type: Rechargeable 9Ah

3. TELCO line requirements & connections

- a. TELCO voltage: 24-52VDC
- b. TELCO current: 23mA

4. Installing expansion cards

- a. Power must be off prior to installing cards.
- b. Install Internal/External cards first, beginning with slot one and installing additional cards consecutively.

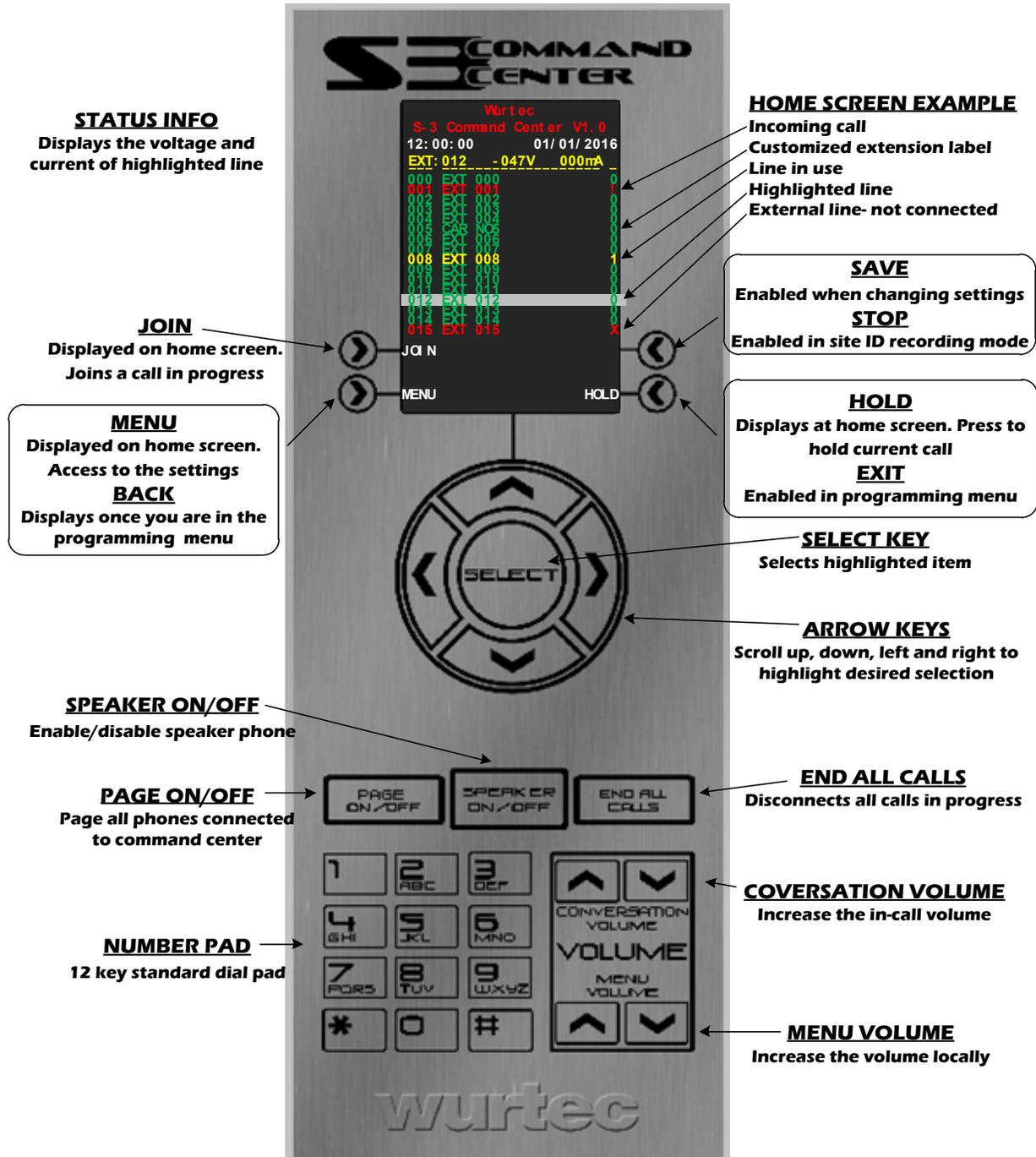
5. Station minimum wiring requirements

- a. TELCO to Command Center – 24AWG UTP
- b. Command Center to elevator – 24AWG STP; conform to ASME A17.1
- c. Command Center to station – 24AWG UTP
- d. Command Center to Command Center (future) – 24AWG UTP / 4 pair CAT 5

OPERATOR INTERFACE & INITIAL CONFIGURATION

1. Labeled diagram of operating devices and display

1. See diagram below:



2. Reading the display

- a. Status info and line labels
 - i. LCD will display EXT on the far left and below that the phone will display the default extensions.
 - a. Lines are numbered 001-016 as default.
 - i. Internal phone lines are always ODD numbers.
 - ii. External phone lines are always EVEN numbered.
 - ii. The text in the middle will display either the line name or the voltage and current of the line if the line names option is disabled.
 - iii. The text to the far right displays the status of each line.
 - a. 1 will display if phone line is OFF hook.
 - b. 0 will display if phone line is ON hook.
 - c. X will display if phone line is not connected.
 - d. ! will display if there is an incoming call or call on hold.
- b. Color change
 - i. The Command Center will sense whether an external phone line is connected to the external card or in use and display a color code for each. Internal lines will indicate whether on or off hook.
 - a. Green - shows a good connection to a line and on standby (0).
 - b. Yellow - shows a line in use/off hook (1).
 - c. Red - indicates an external card is inserted, but no line is connected (X) or an incoming call (!).

3. Initial power up

1. Before applying any power, ensure you have all expansion cards properly inserted in their slots. You should also have all external and internal phone line connections in place.
2. Ensure output from power supply is ~24V.
3. Upon power up, the Command Center will determine what type of expansion cards are installed.
 - i. Internal lines will be displayed with ODD numbered extensions starting with Line 001 at the top and continuing down to 015 if applicable.
 1. Displayed as FXS.
 - ii. External lines, if installed, will be displayed as EVEN numbered extensions starting with line 002 at the top and continuing down to 016 if applicable.
 1. Displayed as FXO.

4. Accessing & configuring programmable parameters

- a. Remote programming - All programming options that can be accessed locally can also be accessed remotely.
 - i. RESERVED FOR FUTURE RELEASE
 - a. Command Center - press * to enter programming mode.
 - b. S3 Communicator - see S3C manual.
- b. Recording site message
 - i. Press MENU button on the left side of the display.
 - ii. Press SELECT button to access the SITE MESSAGE.
 - iii. Press SELECT on the highlighted RECORD option and record site ID message.
 - a. Press STOP on lower right of display to stop recording.
 - b. Scroll down to highlight REVIEW and press SELECT to review recorded message.
 - iv. Repeat step **iii** until satisfied with message.
 - v. To delete message, highlight DELETE and press SELECT.
 - vi. Press EXIT to go to the home screen or press BACK to return to the menu screen.
- c. Password (RESERVED FOR FUTURE RELEASE)
 - i. To change password or disable password:
 - a. Press MENU button on left side of display.
 - b. Scroll down until you have highlighted PASSWORD.
 - c. Press SELECT to access password, then change as needed.
 - i. Once password is changed, you will not be able to access programming menus without it.
 - ii. If circumstances arise that the password is lost and the phone cannot be accessed, you will need to call tech support to reset the password.
- d. Line Name menu option
 - i. Line information defaults to displaying the extension of the line followed by the line status (voltage and then current).
 - ii. To change this to display the extension and line name, you will need to enable line names in the preferences menu.
 - a. Press MENU button on left side of display.
 - b. Scroll down until you have highlighted PREFERENCES.
 - c. Press SELECT to access preferences menu.
 - d. Scroll down to highlight LINE NAMES and press SELECT.
 - e. 0 will toggle to 1, enabling the line names to be displayed.

- f. Press SAVE on right side of display before exiting.
- g. To restore line status display, just toggle 0 back to 1.
- e. Programmable line name and extension
 - i. Line names and extension numbers are all programmable with a full range of alphabet, 0-9, and special characters.
 - a. To access this function, press MENU button on left side of display.
 - b. Scroll down until LINE NAMES is highlighted.
 - c. Press SELECT to begin changing line names.
 - i. Highlight the value you would like to change by pressing the < (LEFT) or > (RIGHT) arrow key.
 - ii. Change the value by pressing the ^ (UP) or v (DOWN).
 - iii. Continue these steps until you have reached the desired designation for this line, and then press SAVE to store values.
 - d. Press BACK to return to previous menu or EXIT to return to home screen.
- f. External line display (RESERVED FOR FUTURE RELEASE)
 - i. The external lines can be configured to be displayed or hidden from user.
 - a. Press MENU button on the left side of display.
 - b. Scroll down until you have highlighted PREFERENCES.
 - c. Press SELECT to access preferences menu.
 - d. Scroll down to highlight EXTERNAL LINES and press SELECT.
 - e. 1 will toggle to 0, turning off external line display.
 - f. Press SAVE on right side of display before exiting.
 - g. To restore external line display, just toggle 0 back to 1.

5. Initial tests

1. To make sure you have a good telephone line, you can make an outside call from the Command Center using the keypad. This is a good time to verify emergency numbers also.
 - i. Lift handset or press SPEAKER ON/OFF.
 - ii. Press 9, 9, then the number you wish to dial. If the line is good, you will be able to connect to an outside line. If the line is bad, or not connected, you will get a busy tone.
 - iii. Return handset to receiver or press SPEAKER ON/OFF (if phone was on speaker).

BASIC OPERATION/USE FROM THE COMMAND CENTER

1. Answering a station call

- a. Answering a call is very similar to a standard telephone with a speakerphone and handset options.
 - i. When the Command Center is ringing, you have the option to pick up the handset and talk to the party.
 1. If you would like to switch to speakerphone, press the SPEAKER ON/OFF button and place the handset back on the receiver.
 - ii. You can leave the handset on the receiver and press the SPEAKER ON/OFF button as well to answer the phone on speakerphone.
 1. If you have answered using speakerphone button and want to use handset, simply lift handset and continue conversation.
- b. If the call is from an S3 Communicator, you will need to press 1 to talk to the party or 2 to listen to the site ID message if the phone is not set to immediate two-way calling.

2. Calling a station

- a. There are multiple ways to call a station from the Command Center:
 - i. Using SELECT while handset is off hook.
 1. Scroll ^ (UP) or v (DOWN) until you have highlighted the desired extension.
 2. Press SELECT on the highlighted extension and wait for an answer.
 3. If you would like to communicate on speakerphone, press the SPEAKER ON/OFF button and then place the handset on the receiver.
 - ii. Using SELECT while handset is on the hook.
 1. Scroll ^ (UP) or v (DOWN) until you have highlighted the desired extension.
 2. Press SELECT on the highlighted extension and wait for an answer.
 3. Call will automatically be on speakerphone.
 4. If you desire to use handset just lift it off the receiver and continue conversation.

3. Ending a station call

- a. How you end the call depends on whether the call is on speakerphone or through the handset.
 - i. If you are communicating through the handset, you simply place the handset back on the receiver.

- ii. If you are communicating through the speakerphone (handset will be on receiver) then you will need to press SPEAKER ON/OFF which will disconnect the call.
- iii. If you are unsure, pressing the END ALL CALLS button will disconnect all active calls. This is explained further in the section titled "Ending call with multiple stations".

4. Holding a station call

- a. Due to code compliance, the process of placing a call on hold may be different from what you are accustomed to with a call waiting-enabled device. The operation is embedded in the system to ensure callers will not be unanswered.
 - i. If you are connected to 1 caller with the Command Center, you will only be able to place that caller on hold if the phone is on speakerphone.
 - ii. When another caller is calling in, the HOLD button will become active on the right side of the display.
 - iii. Press the HOLD button and 2-way communication will automatically be enabled with that second caller.
 - iv. If another call is ringing through, you can press HOLD again and be connected to that call.
 - v. See "Answering a call with a call on hold" section for more info on holding calls.

5. Answering a station call with a call on hold

- a. Answering a call while a call is on hold is as easy as pressing HOLD and the next call in the queue will be answered.
- b. You are not able to select which car you talk to when there are multiple calls. The priority is dictated by the caller that called in first and whether the call has already been answered. This is executed internally by the Command Center.
- c. See "Holding a station call" for additional information.

6. Joining multiple station calls

- a. Joining a call or calls is a feature of the Command Center and can be accomplished by pressing JOIN on the left side of the display for calls that are in progress. This function does not join two calls together, but rather joins in on a call already in progress.
 - i. To join a call, 1 or more phones connected to the Command Center have to be on an active call.
 - 1. You will be able to see that they are on a call by looking at the display (the line on a call will be yellow with a "1" on the far right indicating line is in use).

2. Press JOIN to connect the Command Center to the call.
3. You will now be able to communicate with everyone that is active on this call.
4. You may disconnect from this conversation at any time by hanging up the Command Center. The calls you joined will stay active until they have disconnected themselves, or you press the END ALL CALLS button.

7. Calling multiple stations (paging)

- a. Calling multiple stations is accomplished by pressing the PAGE ON/OFF button.
 - i. The Command Center will ring any phone that is connected to it.
 1. This is a one way call only and is for the Command Center to make announcements.
 2. Command center will connect S3 Communicator phones automatically. Other phones on the line may have to be manually picked up.
 - a. *S3 Communicator phones set up for line sharing will not answer a page due to the added menu option required to reach the phone.*
 3. The page function will remain “on” until you press END ALL CALLS to disconnect from all lines that were affected by the page.
 - a. While page is “on”, placing the handset on the receiver or pressing SPEAKER ON/OFF will not disconnect the phone as it typically would in a call. Switch to speakerphone by placing the handset on the receiver, and switch back to handset mode by lifting the handset.

8. Ending call with multiple stations

- a. To end a call on multiple stations, the easiest and fastest way is to press the END ALL CALLS button. This of course depends on whether you want disconnect from one or all of those calls, because pressing that button will end ALL calls.
- b. If you just wish to disconnect from one call at a time, then you may do so by hanging up the phone on a call, which will bring the next call up in the queue to be answered. This call can be ended by hanging up also and so on down the line until they have all been ended.
 - i. *You cannot hang up one by one if page was initiated. In this case, you must END ALL CALLS.*

9. Calling outside line

- a. The Command Center can connect to an outside line if a valid external line is present. There are two ways to accomplish this:
 - i. Scroll ^ (UP) or v (DOWN) to highlight the external line and press SELECT. When you hear the dial tone, you can dial an external number.
 - ii. Another (and the most common) way is to press SPEAKER ON/OFF or to lift the handset off the receiver. When you hear a dial tone, **press 99** to get an outside line followed by the number you wish to call.

10. Answering outside line

- a. Answering a call from an outside line is basically the same as answering a station call.
 - i. When Command Center is ringing you have the option to pick up the handset and talk to the party.
 1. If you would like to switch to speakerphone, press the SPEAKER ON/OFF button and place the handset back on the receiver.
 - ii. You can leave the handset on the receiver and press the SPEAKER ON/OFF button as well to answer the phone on speakerphone.
 1. If you have answered using speakerphone button and want to use handset, simply lift handset and continue conversation.
- b. If the call is from an S3 Communicator, you will need to press 1 to talk to the party or 2 to listen to the site ID message if the phone is not set to immediate two-way calling.

BASIC OPERATIONS FROM A STATION

1. Answering Command Center call

- a. Answering a call from the Command Center depends on what device is being called. The main devices that will be attached to the Command Center will be:
 - i. S3 Communicator - you will not need to do anything at the S3C to answer this call.
 - ii. S3 Communicator Master Station - same as the standard S3Communicator, but you can also lift the handset to talk after the call has been established.
 - iii. Any POTS telephone connected to the Command Center can pick up and have immediate two-way calling.

2. Calling Command Center

- a. Dial extension 0 from any station connected to the Command Center.

3. Ending Command Center call

- a. To end a Command Center call from a station depends on the device being called.
 - i. S3 Communicators will disconnect automatically when the Command Center ends the call.
 - ii. Any other phone on the line – place the phone back on the hook or see what the manufacturer of that particular phone requires to end a call.

4. Holding Command Center call

- a. If you are on a phone that is capable of holding a call, you will need to refer to that manufacturer's instructions on how to do so. The Command Center extension that you are connected to will stay on hold indefinitely until you remove the hold.

5. Calling another station

- a. To call another station from a station, you must know the extension that the other station is connected to.
 - i. You may call only 1 station at a time from any 1 station.
 - ii. If a station is already on a call, you will get a busy tone notifying you of this status.

6. Answering station call

- a. Refer to "Answering Command Center call".

7. Ending a station call

- a. Refer to "Ending Command Center call".

8. Calling outside line

- a. To connect to an external/outside line, lift the handset off the receiver. When you hear a dial tone, press 99 to get an outside line, followed by the number you wish to call.

9. Answering outside line

- a. Answering a call from an outside line is much like answering a call from the Command Center: it depends on what device is being called. Devices that may be calling are:
 - i. S3 Communicator - you will not need to do anything at the S3C to answer this call.
 - ii. S3 Communicator Master Station - same as standard S3 Communicator, but you can also lift handset to talk after call has been established.
 - iii. Any POTS telephone connected to the Command Center can pick up and have immediate two-way calling.

BASIC OPERATION FROM AN S3 COMMUNICATOR STATION

1. Programming the S3 Communicator

- a. Full programming instructions for the S3C are located in the instruction booklet that came with the phone, on our website Wurtec.com, or by contacting technical support.

2. Calling Command Center

- a. Program the extension 0 as an EMERGENCY NUMBER in the phone.
 - i. Example:
 1. Press EMERG PHONE NUMB shortcut button.
 2. Press 1 for first number.
 3. Enter 0 then # to save.
 4. * then 0 to disconnect from menu.
 - ii. From an S3C Master Station, there is no need to program the number because it has a keypad on the front of the phone to dial as you would a regular telephone.
 1. Press TALK/END.
 2. Enter 0 to call Command Center.

3. Calling outside line

- a. To program the phone to call an outside line you must first program a 99 then * before the number.
 - i. Example:
 1. Press EMERG PHONE NUMB shortcut button.
 2. Press 2 for second number.
 3. Enter 9-9-*-[PHONE NUMBER] then # to save.
 4. * then 0 to disconnect from the menu.
 - ii. From an S3C Master Station, there is no need to program the number because it has a keypad on the front of the phone to dial as you would a regular telephone.
 1. Press TALK/END.
 2. Enter 99 and then the number you wish to call.

4. Calling another station

- a. Program the extension as an EMERGENCY NUMBER in the phone.
 - i. Example, to call extension 1 as the emergency number:
 1. Press EMERG PHONE NUMB shortcut button.
 2. Press 3 for third number.
 3. Enter 1 then # to save.
 4. * then 0 to disconnect from menu.

- ii. From an S3C Master Station, there is no need to program the number because it has a keypad on the front of the phone to dial as you would a regular telephone.
 1. Press TALK/END.
 2. Enter the number of the station you wish to call.

5. Answering calls

- a. Calls to an S3C will be answered automatically. When the S3C picks the phone up, you will hear an audible beep and the LED will start flashing. The call will end automatically as well and gives you an audible “they have hung up” followed by the LED shutting off.

CONNECTING TO OTHER COMMAND CENTERS

Calls can be placed from one Command Center to another, similarly to an elevator phone or an outside line. Additional hardware and cabling is required to accomplish this as shown in figure 1. The elevator phone block depicts elevator phones capable of sharing a single line as with the Wurtec S3 Communicator phones.

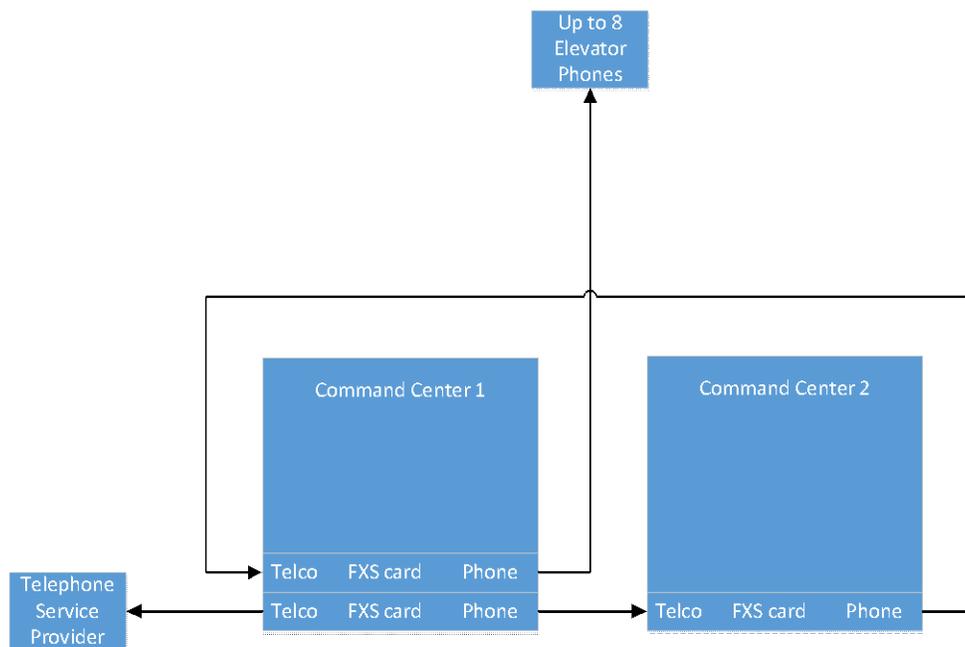


Figure 1: Block diagram representation showing connections required for Command Center to Command Center communications along with Telco and elevator phone connections.

In this scenario Command Center 1 can call Command Center 2 or vice versa via the following steps:

1. Select the extension that the other Command Center is connected to, in this case EXT 001.
2. The other Command Center will answer with its automated response asking for the number of the phone that you would like to talk to.
3. To ring the other Command Center, directly dial 0.

With S3 Communicators configured to share a line as the elevator phones connected to Command Center 1, a call can be placed from Command Center 1 to any of the phones via the following steps:

1. Select the extension that the phones are connected to, in this case EXT 003.
2. The S3 Communicators will respond with their automated response asking which phone (1 – 8 or 0 for all) you want to talk to.

Likewise, to place a call from Command Center 2 to any of the S3 Communicators:

1. Select the extension that the other Command Center is connected to, in this case EXT 001.
2. The other Command Center will answer with its automated response asking for the number of the phone that you would like to talk to.
3. Dial the extension that the phones are connected to, in this case 3.
4. The S3 Communicators will respond with their automated response asking which phone (1 – 8 or 0 for all) you want to talk to.

Calling from Command Center 1 to an outside line works the same way as outlined above with a single Command Center:

1. Dial 99 from the Command Center to get the dial tone from the outside line, then the number that you want to call.

To place a call to the outside line from Command Center 2 in this scenario:

1. Dial 99 to get a dial tone from Command Center 1.
2. Dial 99 again to get a dial tone from the outside line, then the number that you want to call.

ADVANCED OPERATIONS

1. Programming S3C from Command Center

- a. You can program any S3C that is connected to the Command Center or accessible through an external line. Full programming instructions for the S3C are located in the instruction booklet that came with the phone, on our website Wurtec.com, or by contacting technical support.

2. Ethernet connectivity

- a. RESERVED FOR FUTURE RELEASE

3. USB firmware upgrade support

In addition to allowing the user to modify and store configuration parameters, the Command Center firmware is field-upgradeable to allow users to have access to new functionality and features as they become available.

To upgrade the Command Center firmware a Windows 7 or greater laptop or PC with a USB 2.0 and internet connection is required. In addition, the laptop or PC must have the Microchip FLIP software application installed. The FLIP software can be installed by selecting the "FLIP x.x.x.x for Windows (Java Runtime Environment included)" link at : <https://www.microchip.com/developmenttools/ProductDetails/FLIP>

Where x.x.x.x is the latest version of the FLIP application.

The Command Center firmware can be obtained by request from: PhoneSupport@wurtec.com on request.

To perform a firmware update on the Command Center:

1. Open the Command Center enclosure and locate the F/W Update and Reset pushbuttons on the S3Pbx PCB and shown in **Figure 2** (next page).

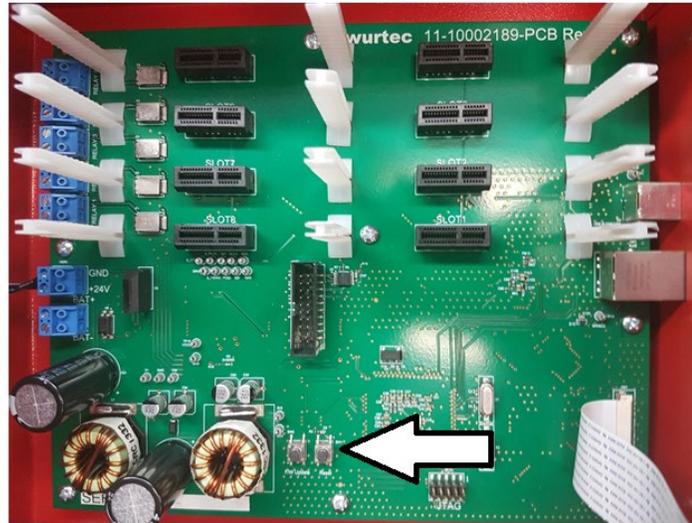


Figure 2: Command Center S3Pbx PCB F/W Update and Reset pushbuttons.

2. Press and hold both pushbuttons for at least 2 seconds.
3. Release the Reset pushbutton while still pressing the F/W Update pushbutton.
4. After at least 1 second, release the F/W Update pushbutton.
5. Connect the laptop or PC to the Command Center with a USB cable.
6. Open a CMD line window and type:

```
batchisp -device at32uc3a0512 -hardware usb -operation erase F blankcheck
loadbuffer "%DFUISP_PATH%" addrange 0x80002000 0x8007ffff program verify
start reset 0
```

Where %DFUISP_PATH% is the path and file name for the firmware obtained from Wurtec. For example: C:\Users\user1\Desktop\S3Pbx\isp.hex.

7. Type <enter> and wait until the firmware update successfully completes as shown similarly in figure 3.

```
AT32UC3C0512C - USB - USB/DFU
Device selection..... PASS
Hardware selection..... PASS
Opening port..... PASS
Reading Bootloader version..... PASS    1.1.0
Erasing..... PASS
Selecting FLASH..... PASS
Blank checking..... PASS    0x00000 0x7ffff
Parsing ELF file..... PASS    uc3c0512c-usart_example.elf
WARNING: The user program and the bootloader overlap!
Programming memory..... PASS    0x00000 0x02c03
Verifying memory..... PASS    0x00000 0x02c03
Starting Application..... PASS    RESET 0
Summary: Total 11 Passed 11 Failed 0
```

Figure 3: Typical batchisp CMD window output upon successful firmware update.

8. If the Command Center hasn't restarted after about a minute, press and hold the Reset button for about a second, then release.
9. After the Command Center has been restarted, the firmware version number can be verified by going to Menu->Status from the idle screen and confirming that the version number in the firmware file name received from Wurtec is the same as show in the "FW Ver" field on the Status screen.
10. Disconnect the USB cable and close the Command Center enclosure.

TROUBLESHOOTING

1. Keypad not working

- a. Ensure Command Center is powered up.
- b. Ensure phone is off hook if you are attempting to use number pad.

2. Arrow keys not working

- a. This function is disabled when on a call.
- b. Ensure Command Center is powered up.

3. Have a good phone line, but hear a busy tone when attempting to call out

- a. You must first dial 99 to get an outside line. If you do not, you will get a busy tone.
- b. Make sure the display on the Command Center shows the external line as green and "0" as the status when phone is on hook.
 - i. If the external line is displayed as red and has "X" as the status, the Command Center does not recognize a good line.
 - ii. Verify you have at least 24VDC on the line.

4. Command Center does not respond to Touch Tone when calling remotely

- a. Verify the phone you are using is not set to "pulse" dialing. All S3 products will only recognize tone dialing.
- b. Using a land line telephone, the Command Center should respond to touch tones with no problems.
- c. If using a cell phone, it may be because of bad cell reception or just may not work at all with some phones. In this case, it is recommended you use a land line or be onsite to perform any programming.

5. Handset is not working

- a. Verify the handset is connected properly to the Command Center and at the base of handset.
- b. If the phone is on speakerphone, the handset is disabled.
 - i. While phone is on speakerphone, place handset back on receiver.

- ii. If at some point the Command Center was placed on speaker without returning the handset back to the receiver, both may not function properly and you will need to ensure phone is on hook by returning handset to receiver and turning off speakerphone.

TECHNICAL SUPPORT

Tech support can be reached at (419) 930-1066 or toll free at (800) 837-1066, Monday through Friday, 8:00 a.m. to 5:00 p.m. EST>

DAILY CHECKS

The Command Center is intended to be self-sufficient, so minimal maintenance is required to keep it in operating condition. The Command Center will display any warning messages or error conditions that are detected until acknowledged, so it should be checked at a minimum of once per day.

MAINTENANCE

The Command Center battery is the only component that will require regular maintenance and should be replaced at least once every 5 years.

CERTIFICATES AND COMPLIANCE

FCC Part 15, Class A

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.