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# uplink<sup>®</sup> CDMA30

**PRIMARY  
ALARM COMMUNICATOR**

## **INSTALLATION & USER'S GUIDE**

PRODUCT ID # 202132CDMA3000



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PRODUCT ID # 202132CDMA3000

# PRIMARY ALARM COMMUNICATOR

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## INTRODUCTION

The Uplink MODEL CDMA30 Primary Cellular Communicator is an alarm and critical event communicator designed to be used with almost any manufacturer's alarm panels that incorporate a digital telephone dialer. The Uplink CDMA30 provides a "Primary" interface to the protected premises' alarm panel. The primary application for this unit is an installation where no TELCO is present or available. The Uplink CDMA30 unit will "intercept" the alarm panel's digital dialer output when the panel has an event to report, and communicate with the panel as if it were a central station alarm receiver. Once the CDMA30 completes a communications session with the alarm panel, it will packetize the event data and transmit the alarm information to the designated central station receiver using the local cellular communications network. Alarm information can be sent in Contact ID (SIA-DC05), SIA (SIA-DC03), Modem IIe/IIIa/IIIa2 or Pulse 4+2 formats to any central station receiver.

The CDMA30 Cellular Communicator uses CDMA technology to receive programming and send event information to the central station. Its operating frequencies are in the 800 MHz and 1900 MHz bands. The CDMA30 transmitter is capable of operating as a Class 4 device (2 W output) on 800 MHz and as a Class 1 device (1 Watt output) on 1900 MHz. The CDMA30 comes with a dual band quarter-wave antenna covering the frequency bands of 824 - 894 MHz and 1850 - 1990 MHz.

The CDMA30 Cellular Communicator can be used as the primary means of communications, or as the backup communications path for the alarm panel to which it is connected when the alarm panel has an alternate communications path such as a digital dialer (or DACT), direct internet, etc.

## KEY FEATURES

**A. FULL DATA Reporting.** Compatible with most alarm panels using Contact ID (SIA DC-05 Standard), SIA FSK Level 1 (SIA DC-03 Standard), Modem IIe/IIIa/IIIa<sup>2</sup> or Pulse 4+2 digital dialer formats. All information sent by the alarm panel in either formats (account number, zone information, User IDs, etc.) will be sent to the central station using the CDMA network.

**B. Panel to CDMA30 Cable Supervision.** Monitors continuity of the cable connecting the panel's telephone dialer to the CDMA30. This feature is activated through the website [www.uplink.com](http://www.uplink.com) or by calling Uplink Customer Service at 1-888-9-UPLINK (1-888-987-5465).

**C. Output.** The CDMA30 has one programmable relay output. This output can be programmed to activate upon the occurrence of one or more of the following Trouble conditions:

- Cellular Network Loss
- No Central Station Acknowledgement
- Low DC input Voltage
- Panel/CDMA30 Cable Supervision Trouble
- Unit Disabled by Dealer Command
- Watchdog Circuit Activation

**D. Power Source Monitoring** (Low DC Input Voltage Reporting). The CDMA30 can report a low input Voltage condition to the central station when its DC input voltage drops below 10.2V DC. It will report Low input Voltage Restoral at 11.4V DC.

**E. Automated Testing.** The CDMA30 can be programmed to send an automated test signal to the central station on a monthly, weekly or daily interval.

**F. CDMA Network Supervision.** Supervises the local CDMA network. If the unit no longer locates the local CDMA network, its output relay activates to report this trouble condition.

## KEY FEATURES (cont.)

G. Status/Received Signal Strength LEDs. The five LEDs indicate the current operational status and are visible from outside the enclosure. These LEDs can be placed into Received Signal Strength Indication mode (RSSI) to assist in selecting the optimal mounting location for transmitting and receiving cellular radio signals.

H. Easy Service Initiation. Easy activations available via the Web at [www.uplink.com](http://www.uplink.com) or by calling Uplink Customer Service at 1-888-9-UPLINK (1-888-987-5465). Requires the central station receiver phone number and/or its IP address and Port number.

I. Web-based Services. Available at [www.uplink.com](http://www.uplink.com) and include:

- a. immediate, real-time activation
- b. history of past event transmissions
- c. initiation of a test report
- d. the ability to query the unit and receive a real-time radio report status including a Received Signal Strength reading
- e. programming the output and other internally generated events

# **WARRANTY INFORMATION AND LIABILITY WAIVER**

## **TERMS and CONDITIONS**

Purchase, installation, and use of Uplink devices and associated services subject to the terms and conditions of the applicable resale/device activation agreement between Uplink and installer including, without limitation, Uplink limited product warranty. See <https://login.uplink.com/>



## **FCC & REGULATORY COMPLIANCE**

### **Part 15**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced technician for help.

## **FCC RF EXPOSURE INFORMATION**

In August 1996 the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency electromagnetic energy emitted by FCC regulated transmitters. Those guide-lines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of this module complies with the FCC guidelines and these international standards. The FCC ID of this unit is **MIVCNN0301**. For more information about RF exposure, please visit the FCC website at [www.fcc.gov](http://www.fcc.gov).

The term "IC" before the certification/registration number only signifies that the Industry Canada Technical Specifications were met. The external antennas used for this module must provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

## TECHNICAL SUPPORT

### Technical Support

Technical support is available **Monday through Friday, 8:00 AM to 8:00 PM ET** excluding holidays. Before calling technical support please ensure to have read the installation guide completely. Technical support requires the caller to provide:

- **Login name**
- **Password**
- **Serial number of the CDMA30**

### **UPLINK Technical Support**

3330 Cumberland Blvd.

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Atlanta, GA 30339

888-9-Uplink (888-987-5465)

Fax: 888-542-9105

For Customer Support, call 888-987-5465, or visit [www.uplink.com](http://www.uplink.com).

## INSTALLATION

### A. General Considerations

Determine where to mount the unit. Keep the following in mind:

- a. Where to obtain the best transmitted and received signal strength for the cellular radio. (If the installer does not have a very strong cellular signal in his area, he may want to first power the unit from a portable 12V DC source, switch on S4 and move the unit to a location that gives him the best signal strength.)
- b. Proximity to the alarm panel and where to route the CDMA30's relay output that connects to an alarm panel input.

### B. DIP Switch Settings

The CDMA30 has a four-position dipswitch. The dipswitches function as follows:

SWITCH NO.	SETTING	FUNCTION
S1: Default Load	OFF	Normal Operations
	ON	Load Defaults
S2: OTA Operation	OFF	OTA configuration allowed
	ON	OTA configuration blocked
S3: Reserved	OFF	N/A
	ON	N/A
S4: LED Function	OFF	Normal Operations
	ON	RSSI Measurements

(INSTALLATION continued next page)

# INSTALLATION (cont.)

## C. LEDs

Normal Mode: Upon initial power up, the 5 LEDs on the CDMA30 will begin to function as follows:

LED	LED STATUS	LED MEANING
Power LED (#1)		
OFF		No DC power is present
GREEN	On	DC Power is present
RED	Flashing	DC Input Voltage Low
Panel Hook Status LED (#2)		
GREEN	On	Panel is on-hook
	Flashing	Panel is off-hook
Trouble LED (#3)		
GREEN	On	Output Relay Normal
RED	On	Output Relay Off-Normal
GSM Comm LED (#4)		
GREEN	On	Unit registered on the network
	Fast Flash	Transmitted SMS message, wait for OK from radio
	Slow Flashing	Waiting for an ACK from the Central Station
RED	On	Unit not registered or No Cellular Network
	Fast Flash	Registered on the GPRS network only (No CDMA)
	Slow Flashing	Registered on the GSM network only (No CDMA)

(INSTALLATION continued next page)

# PRIMARY ALARM COMMUNICATOR

## INSTALLATION (cont.)

LED	LED STATUS	LED MEANING
Heartbeat LED (#5)		
GREEN	Flashing	Unit is functioning normally
RED	Flashing	S1 is ON after reset

RSSI Mode: When the CDMA30 is placed in Received Signal Strength Indicator (RSSI) Mode by turning Dipswitch S4 to ON, the five LEDs indicate the follow signal strength information:

RECEIVED SIGNAL STRENGTH	APPEARANCE OF LEDs (#1 thru #5)
≥ -50 dBm (Good)	●●●●● Unit is functioning normally
≥ -60 dBm (Good)	○●●●● #1: green, solid; #2: green, solid; #3: green, solid; #4: green, solid; #5: green, solid
≥ -70 dBm (Good)	○○●●● #1: off; #2: off; #3: green, solid; #4: green, solid; #5: green, solid
≥ -80 dBm (Good)	○○○●● #1: off; #2: off; #3: off; #4: green, solid; #5: green, solid
≥ -90 dBm (Min. Acceptable)	○○○○● #1: off; #2: off; #3: off; #4: off; #5: green, solid
≥ -100 dBm (Unacceptable)	○○○○☼ #1: off; #2: off; #3: off; #4: off; #5: green, flash
≥ -110 dBm (Unacceptable)	○○○○● #1: off; #2: off; #3: off; #4: off; #5: red, solid
≤ -111 dBm (Unacceptable)	○○○○☼ #1: off; #2: off; #3: off; #4: off; #5: red, flash
No signal	○○○○○ All OFF

(INSTALLATION continued next page)

## INSTALLATION (cont.)

### D. Locating and Installing the CDMA30

The CDMA30 is housed in a plastic enclosure. The installer needs to supply DC power from the panel via the AUX output or via a separate DC power source. Input DC current is listed in Section 9 – Specifications.

After carefully considering all of the issues outlined in Section 7-A (General Considerations), proceed as follows:

1. Separate the top and bottom of the enclosure by depressing the tab on the bottom of the unit and then tilting the bottom of the plastic top outward and up.
2. Connect the antenna that is supplied with the CDMA30. The Antenna differ from the ones depicted in the figures in this manual.
3. Go to the red, 4-position Dipswitch as shown in Figure 1 and set the dipswitch as appropriate for this installation. (See Section 7B.)
4. Place Dipswitch #4 (S4) in the ON position. The LEDs are now operating in RSSI Mode. Locate a good mounting position based on a good Received Signal Strength Indication (RSSI). It is recommended that the installation location demonstrate an RSSI of at least -80 dBm (two solid green LEDs). The minimum acceptable RSSI is -90 dBm (1 solid green LED).

(INSTALLATION continued next page)

# PRIMARY ALARM COMMUNICATOR

## INSTALLATION (cont.)

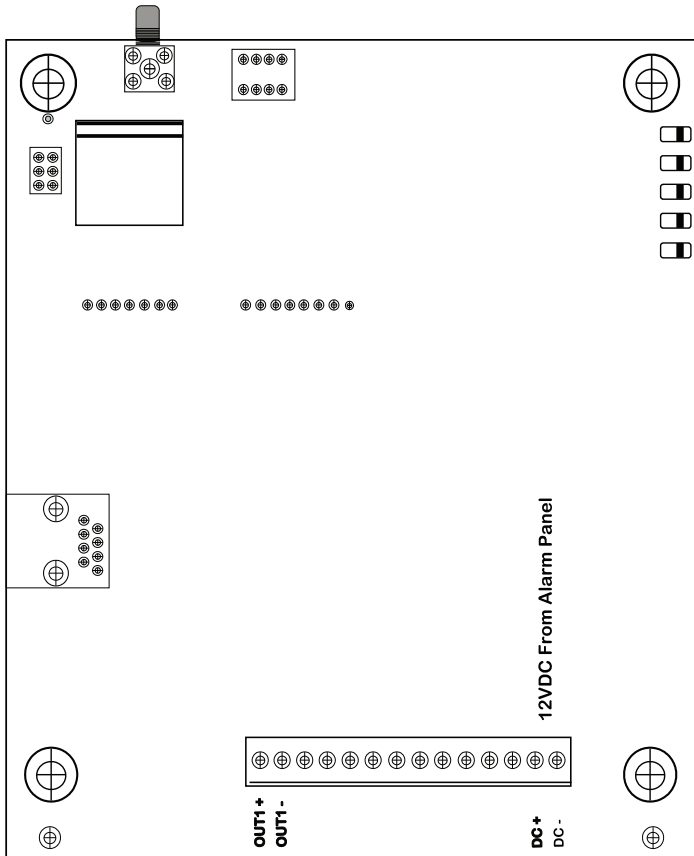


FIGURE 1: Model CDMA30 PC Board Details

(INSTALLATION continued next page)



## INSTALLATION (cont.)

5. Position the bottom of the CDMA30 enclosure where it will be installed.  
Use four (4) #6 screws and mount the unit using the four holes in the enclosure's plastic bottom. The CDMA30's dimensions are shown in Figure 2.

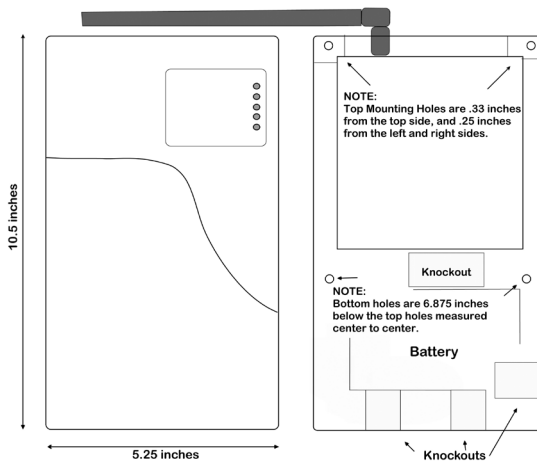


FIGURE 2: Inside & Outside Mounting Dimensions for the CDMA30

6. Make sure that the unit's antenna is connected.
7. Connect the positive (+) and negative (-) terminals of the DC Power Input to terminals DC+ and DC - respectively on the CDMA30.
8. Double check to make sure that the RSSI is still showing a good signal strength level.
9. Before connecting the alarm panel and the CDMA30, first:
  - a. Return Dipswitch #4 (S4) to the OFF position.
  - b. Disconnect the Positive and Negative connections to the DC Power source.

**CAUTION: Incorrect Connections May result in Damage to the Unit**

(INSTALLATION continued next page)

## INSTALLATION (cont.)

### E. Connecting the CDMA30 to the Alarm Panel

**IMPORTANT: Make all of the connections to the CDMA30 in the powered down state. Once all of the connections have been established, turn power on.**

1. First, remove DC power from the CDMA30, and then proceed as follows:
2. Panel Connections  
Connect the alarm panel's telephone output to the CDMA30 with an appropriate cable. On the CDMA30's side, the cable should use an RJ45 plug and be connected into Jack JP3.
3. Output  
The CDMA30 has one relay output that can be used to activate an input on the alarm panel or for other local purposes. Decide on how to use this output, then wire it from the terminal strip to the external panel or device:

Output #1 Terminals: OUT1+ and OUT1-

The default state for this Output is as follows:

OUTPUT	DEFAULT STATE	DEFAULT DEFINITION
#1	Energized closed (N.O.)	Loss of cellular service

See Figure 3 as an example of how to connect the CDMA30 to the alarm panel.

(INSTALLATION continued next page)

## INSTALLATION (cont.)

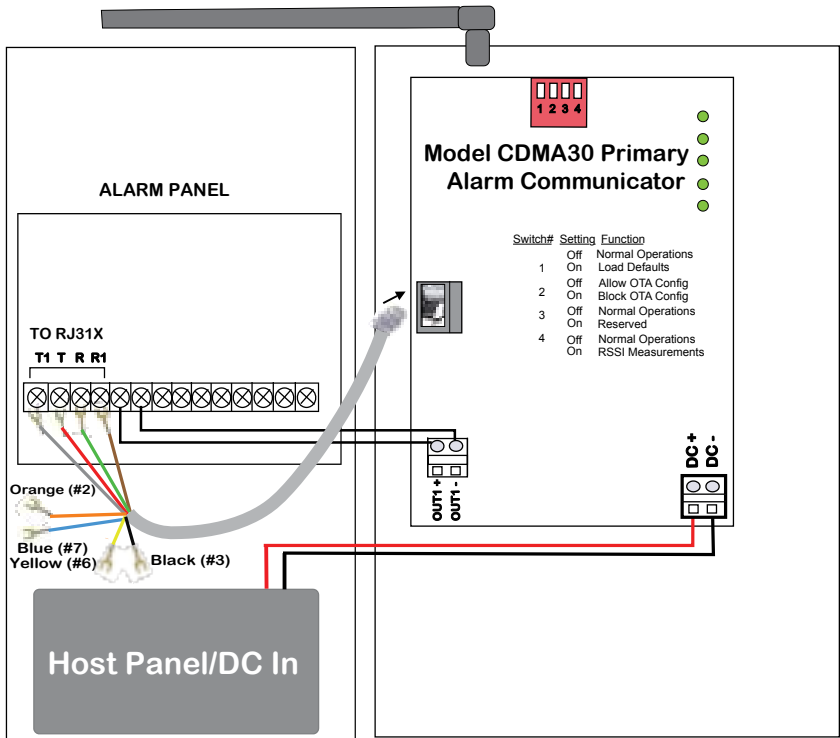


FIGURE 3: Connections between the CDMA30 and the Alarm Panel

(INSTALLATION continued next page)

## **INSTALLATION (cont.)**

### **F. Activating the CDMA30**

The CDMA30 is programmed OTA (Over-the-Air) by accessing the Uplink Dealer website or by calling Uplink Customer Service at **1-888-987-5465**.

#### **New Dealer CDMA30 Activation:**

For new dealers/customers, you must first establish an account with Uplink by visiting the Uplink website ([www.uplink.com](http://www.uplink.com)).

- a. Click on UPLINK DEALERS new/existing dealer access tab.
- b. Click on the New Dealer Signup button.
- c. Enter all information in the sign up form. Note: You must read and accept the terms of the Activation Agreement. Click the Setup button.
- d. A box will appear that reads “If you want monthly service billed to a 3rd party such as a central monitoring station then you should NOT request an account – please contact Uplink Sales at 1-88-987-5465.” Click OK.
- e. A confirmation box will appear that reads “Congratulations, your new Uplink Account was successfully created!” Press OK. At this point there will be a screen entitled “Step 2. Rapid Signup – please provide Login & Contact Information.” Fill out this form, then click Sign Up.
- f. Select the UPLINK DEALERS new/existing dealers button at the top of the page. Enter the Login Name and Password. Wait about 20 seconds for the next web page to completely load.
- g. Select Activate Unit from the menu choices.
- h. Answer “Yes” to the question “I have read and I accept the terms of the Activation Agreement.”
- i. Enter the device serial number and select Activate.
- j. Enter all appropriate customer information.
- k. From the Central Station Notification drop down menu, select the appropriate format.

(INSTALLATION continued next page)

## INSTALLATION (cont.)

- l. Enter the appropriate Central Station phone number and account number.
- m. Configure the device to meet your install needs.
- n. Select Update.
- o. From the Programming drop down menu, select Program Unit Over the Air.
- p. Set the appropriate Dialer Protocol select Send.
- q. From the Test drop down menu, select Send Status Request Signal.
- r. Activation is complete once a successful test message is displayed.

### **Existing Dealer CDMA30 Activation:**

For dealers/customers who already have an account with Uplink, go to the Uplink website ([www.uplink.com](http://www.uplink.com)).

- a. Enter the Login Name and Password. Wait about 20 seconds for the next web page to completely load.
- b. Select Activate Unit from the menu choices.
- c. Answer “Yes” to the question “I have read and I accept the terms of the Activation Agreement.”
- d. Enter the device serial number and select Activate.
- e. Enter all appropriate customer information.
- f. From the Central Station Notification drop down menu, select the appropriate format.
- g. Enter the appropriate Central Station phone number and account number.
- h. Configure the device to meet your install needs.
- i. Select Update.
- j. From the Programming drop down menu, select Program Unit Over the Air.
- k. Set the appropriate Dialer Protocol and select Send.
- l. From the Test drop down menu, select Send Status Request Signal.
- m. Activation is complete once a successful test message is displayed.

(INSTALLATION continued next page)

## INSTALLATION (cont.)

### G. Programming and Central Station Reporting

Programming requires the telephone number of the monitoring central station's alarm receiver and/or its IP address and Port number. Determine whether to use the default settings for the events to be reported or customize them by completing the following:

Use this website to program:

- a. Whether alarms will be sent to the central station via an IP connection or via a telephone dialer.
- b. The telephone number or IP address and Port number of the central station receiver where all of the signals should be sent.
- c. The account number to be sent to the central station for events generated by the CDMA30.
- d. What event codes should be sent for Low DC Input Voltage and its Restoral.
- e. Whether alarm events should also be sent to an email account, and the email account's address.

The following parameters can be configured from the Dealer website:

#### 1. Automated and On Demand Test Signals (Default = Weekly)

The Automated Test signal interval can be changed from the Dealer website to Daily or Weekly. In addition, an immediate test signal can be generated.

#### 2. Activate/Deactivate Output Relay Output relay #1 can be activated or deactivated from the Dealer website. This feature allows the installer to test the correct operation of this output when it is connected to the alarm panel.

## INSTALLATION (cont.)

### 4. Normal State of Output Relay (Default = #1 Energized Closed)

The normal state of the Output Relay can be changed from the Dealer website.

### 5. Definition of Output Relay (Default = #1 Loss of Cellular Service)

There are 6 Trouble states that can be declared by the CDMA30, and each of these states can be programmed from the Dealer website to activate the Output Relay.

The 6 Trouble states are:

- Low DC Input Voltage
- Cable Supervision Trouble (Panel to CDMA30)
- Loss of Cellular Service
- CDMA30 Disabled (via website command)
- Failure to receive ACK from Central Station
- Watchdog Circuit Trouble

### 6. Send Trouble Condition to Central Station (Default = Low DC Input Voltage) Any

or all of the Trouble Conditions detectable by the CDMA30 can be programmed to report that condition (and its Restoral) to the monitoring Central Station

See Appendix A for a list of Contact ID format, SIA format and Modem IIe/IIIa/IIIa2 event codes generated by the CDMA30 that can be sent to the central station receiver.

See Appendix B for a list of the default event codes transmitted by the CDMA30.

The CDMA30 supports any combination of :10, :20, or :40 PPS. Two round or checksum, 1400 Hz or 2300 Hz handshake.

### H. Default Event/Email Messages

Email and Text Messaging will only be available for Status events (e.g., Low DC input Voltage, Test, etc.). Events transmitted from the premises alarm panel via the CDMA30's Primary function will not be sent out by email or text messaging.

## **INSTALLATION (cont.)**

### **I. Completing the Installation and Testing**

Once the physical installation is completed, the unit is activated from the Dealer website, and programming changes are made, test the CDMA30 along with the alarm panel to ensure everything is functioning properly. Test the following:

- a. Check to see that all 5 LEDs are green. The first 4 LEDs should be solid green, and the 5th LED should be flashing green.
- b. Trip an alarm on the alarm panel. Check that the CDMA30 has correctly intercepted the panel's digital dialer output and reported the event to the central monitoring station.
- c. If using the Output Relay on the CDMA30 go back to the Dealer website and use the Switch Output Relay command to test the relay. Make sure the premises alarm panel properly detects the relay's change of state and that it reports the proper event to the monitoring central station.
- d. Finally, remove DC Power from the CDMA30 and trip an alarm on the premises alarm panel. Confirm that the panel detects loss of its communication path and alarms appropriately (local).
- e. Reconnect DC Power to the unit and verify proper handling of the alarm from the panel.



# SPECIFICATIONS

Panel to 2530 Interface	
Line Voltage	48 V DC On-Hook
Dial tone	350 + 440 Hz +/- 0.2%
Distortion	All tones less than 2.0%
DTMF twist accuracy	+/- 1 dB
Panel tones	+/- 0.2%
Receive level minimum	- 45 dBm
Receive S/N minimum	20 dB
Line impedance	600 ohms
Ringer Equivalence	0.3 REN
Mode	Loop start. 26 mA typical
Power	
Input Voltage	(Uninterruptable) Class 2 Power Supply 12V DC /1.6A
Normal Current (On Hook)	125 mA
Maximum Current (Off Hook)	600 mA
Radio during Transmission - Average Current - Peak Current	200mA Average 600mA Peak
DC Power standby current	20 mA

(SPECIFICATIONS continued next page)

## **SPECIFICATIONS (cont.)**

<b>Radio</b>	
Frequencies	800/900/1800/1900 MHz
DC Voltage	3.3 - 4.5 V DC
Sensitivity	-106 dB (typical)
<b>Environmental</b>	
Temperature Range	-30° to +70° C
Humidity	0 to 95% non-condensing
<b>Physical</b>	
Height	10.5 inches
Width	5.4 inches
Depth	2.5 inches

# APPENDIX A: CONTACT ID, SIA EVENT, AND MODEM ILe/IIIa/IIIa<sup>2</sup> CODES

Following is a list of event codes that can be sent to the central station receiver for events generated by the CDMA30:

EVENT DESCRIPTION	CONTACT ID EVENT CODE	SIA DC-03 EVENT CODE	MODEM ILe/ LLA/LLA <sup>2</sup>
AC Fail	E301	AT	48
AC Restoral	R301	AR	49
Alarm (generic)	E140	UA	10
Burglary Alarm	E130	BA	10
Burglary Restoral	R130	BR	12
Burglary Tamper	E137	TA	10
Burglary Tamper Restoral	R137	TR	12
Closing	R400	CL	32
Fire Alarm	E110	FA	0B
Fire Restoral	R110	FR	0E
Fire Supervisory	E200	FS	11
Fire Supervisory Restoral	R200	FJ	12
High Temperature	E158	KA	10
High Temperature Restoral	R158	KR	12
Holdup Alarm	E122	HA	10
Holdup Restoral	R122	HR	12
Low Battery	E302	YT	4B
Low Battery Restoral	R302	YR	4C
Low Temperature	E159	ZA	10

(APPENDIX A continued next page)

**APPENDIX A:  
CONTACT ID, SIA EVENT, AND  
MODEM ILe/IIIa/IIIa<sup>2</sup> CODES (cont.)**

<b>EVENT DESCRIPTION</b>	<b>CONTACT ID EVENT CODE</b>	<b>SIA DC-03 EVENT CODE</b>	<b>MODEM LLE/ LLLA/LLA<sup>2</sup></b>
Low Temperature Restoral	R159	AT	12
Medical Alarm	E100	AR	10
Medical Restoral	R100	UA	12
Opening	E400	BA	2F
Panic Alarm	E120	BR	10
Panic Restoral	E120	TA	12
Phone Fail	E350	TR	44
Phone Restoral	R350	CL	45
Radio Supervision Lost	E355	FA	11
Radio Supervision Restoral	R355	FR	12
Restoral (generic)	R140	FS	12
Service Completed	R616	FJ	12
Service Required	R616	KA	11
Telco Line Fail	E350	KR	44
Telco Line Restoral	R350	HA	45
Test	E602	HR	33
Trouble (generic)	E300	YT	11
Trouble Restoral (generic)	R300	YR	12
Trouble, System Peripheral	E330	ZA	11
Trouble Restoral, System Peripheral	R330	ER	12

## APPENDIX B: CDMA30 DEFAULT EVENT CODES

The CDMA30 is defaulted to send both the Alarm/Trouble condition and the Restoral condition for all of the events listed below. Reporting of individual events can be controlled from the Dealer Website.

Following is a list of the default event codes sent by the CDMA30:

EVENT DESCRIPTION	CONTACT ID EVENT CODE	SIA DC-03 EVENT CODE	MODEM IIE/IIIA/IIIA <sup>2</sup>	ZONE NO. REPORTED
Low DC Voltage	E302	YT	4B	240
Low DC Restoral	R302	YR	4C	240
Cable Supervision Trouble	E616	YX	11	242
Cable Supervision Restoral	R616	YZ	12	242
Cellular Service Loss	E355	YC	11	243
Cellular Service Restoral	R355	YK	12	243
CDMA30 UNIT DISABLED	E616	YX	11	245
CDMA30 UNIT RESTORAL	R616	YZ	12	245
WATCHDOG CIRCUIT TROUBLE	E616	YX	11	246
Watchdog Circuit Restoral	R616	YZ	12	246
Test	E602	TX	33	000

# PRIMARY ALARM COMMUNICATOR

## UPLINK CDMA30 PRIMARY ALARM COMMUNICATOR INSTALLATION, OPERATION AND PROGRAMMING GUIDE

DATED 7/15/13

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