



UC-331-UCX Dual Path Communication Module

Quick Start Guide

Introduction

The UC-331-UCX is a Public Switched Telephone Network (PSTN) replacement supporting Dual Path reporting with IP and cellular communications. Monitoring Centres receive messages via UltraSync servers and can remotely manage UC-331-UCX devices using the UltraSync Web Portal.

Verify that your Monitoring Centre is UltraSync capable before attempting to install the UC-331-UCX. The UC-331-UCX must be provisioned in the UltraSync Web Portal by the Monitoring Centre to begin IP reporting.

UltraSync+ is an iOS and Android app allowing remote keyswitch arming and disarming of the security panel.

The UC-331-UCX can be quickly installed as a simple PSTN replacement product without any configuration. Connection to the alarm panel's auxiliary power and PSTN connection is all that is required.

If both keyswitch arming and static IP are not required, the UC-331-UCX does not need any configuration to minimize onsite installation time.

Included in the Box

- UC-331-UCX unit in enclosure
- Tamper switch with lead
- Jumper
- Antenna
- 6P2C and 4P2C panel cables
- ASIAL cable
- Power and panel cable
- (3) 2K Ω resistor, (3) 3.3K Ω resistors
- UltraSync Quick Reference Guide (this document)

Important Note Before Proceeding

For detailed installation and product information, please download the UC-331-UCX Installation Manual from the Interlogix Web site:

www.interlogix.com.au

Installing the UC-331-UCX

1. Request the Monitoring Centre to provision the UC-331-UCX in the UltraSync Web Portal to enable back-to-base reporting.
2. Determine where to mount the UC-331-UCX. The selected location should provide optimal cellular signal strength and wiring access to the alarm panel.

Caution: Remove all power (AC and battery) to the security system before proceeding. Failing to do so could result in possible damage to the product. Polarity is not important for the dialer interface.

3. Wire the UC-331-UCX to the alarm panel as shown in Figure 1. If ASIAL Serial is required, refer to next page for wiring diagram.

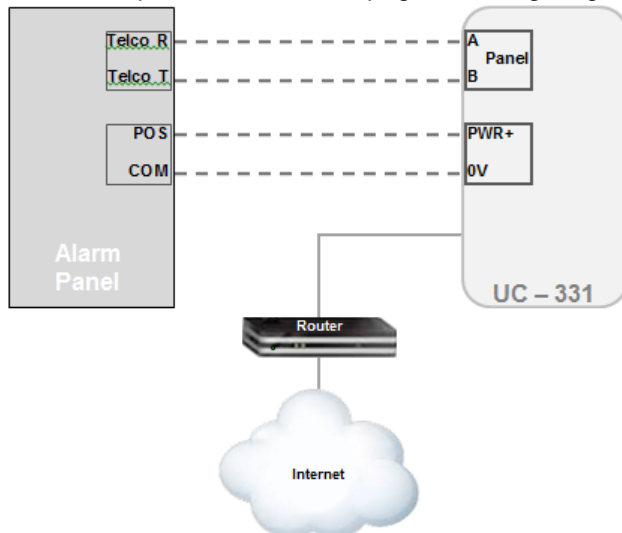


Figure 1: PSTN only panel wiring

4. Reconnect the alarm panel power. Review the power requirements of the whole alarm system including the current draw of the UC-331-UCX. Reference the UC-331-UCX current draw in the specifications detailed below. The alarm system backup battery must be capable of supplying its existing load **and** the UC-331-UCX in the event of an AC power failure. Recalculate the AUX power current draw to stay within the alarm panel's specifications.
5. For remote keyswitch arming and disarming of the panel with the UltraSync+ application, additional wiring and configuration is required. Refer to full UC-331-UCX Installation Manual.

Connecting to Alarm Panels via ASIAL Serial

Note that for Class 3 and Class 4 installations ASIAL Serial must be used.

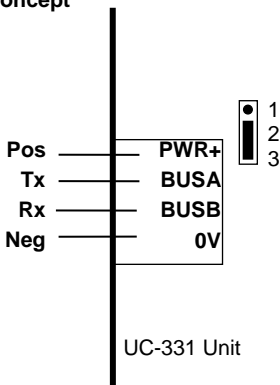
Alarm panels supporting the ASIAL Serial format are connected to BUS1A and BUS1B:

- PWR+ only connect this if the unit is being powered by the alarm panel. If the unit is being supplied by its own plug-pack and battery, then do not connect this pin.
- BUS1A connect to the RX connection on the alarm panel.
- BUS1B connect to the TX connection on the alarm panel.
- 0V always connect this to 0V or GND on the alarm panel.

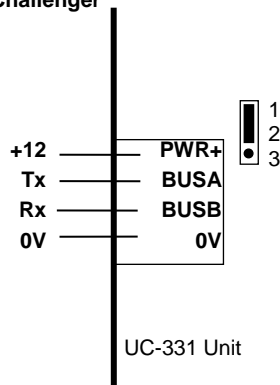
Note that depending on the panel type, the TX and RX connections should be configured for RS-232 or TTL via BUS1 jumper as shown below:

RS232 – Set BUS1 jumper 2 & 3	TTL – Set BUS1 jumper 1 & 2
MCM Icon Range	Tecom Challenger
Concept 2000	GE NetworX
Concept 3000	

Example 1 – Wiring for an InnerRange Concept



Example 2 – Wiring for a Tecom Challenger



Specifications

Power	Voltage range 10VDC – 18VDC
Current	12V 110mA average, 150mA peak
GPIO output current	< 2V at 50mA
Product Dimensions	103 x 180 x 34mm 4.05 x 7.09 x 1.3inch
Environmental conditions	-10° to +70°C +14° to +158°F 5% – 90% relative humidity non-condensing
Panel Interface	Dial Capture, ASIAL Serial including Contact ID sub-format (Challenger 10)
Panel Formats	Ademco® ContactID, Fast SIA 1/2/3
Remote Servicing	Upload download via: - DLX 900 for NetworX - EDS for Concord panels - Titan for Challenger
Cellular Interface	3G+GPRS
Cellular Frequency	850/900/1800/2100 MHz

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Intended Use	Use this product only for the purpose for which it was designed. For the latest product information, contact your local supplier or visit us online at http://www.interlogix.com.au

Regulatory Approvals



Tested To Comply
With FCC Standards
For Home or Office Use

**Regulatory
Information**

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 radio/TV technician for help.

Changes or modifications not expressly approved by UTC Fire and Security could void the user's authority to operate the equipment.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme avec Industrie Canada exempts de licence standard RSS (s). Son fonctionnement est soumis aux deux conditions suivantes: (1) cet appareil ne doit pas provoquer d'interférences et (2) cet appareil doit accepter toute interférence, y compris celles pouvant causer un mauvais fonctionnement de l'appareil.

In accordance with FCC requirements of human exposure to radiofrequency fields, the radiating element shall be installed such that a minimum separation distance of 20 cm is maintained from the general population.

FCC: XPYLISAU200

IC: 8595A-LISAU200

This Class B digital apparatus complies with Canadian ICES-3B. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

EU directives	UTC Fire & Security Americas Corporation, Inc. hereby declares that this device is in compliance with the applicable requirements and provisions of one or more of the Directives 1999/5/EC, 2015/30/EU and 2015/35/EU. For more information see: www.utcfireandsecurity.com or www.interlogix.com
	2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.utcfssecurityproducts.eu/recycle/
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Installation in accordance with this manual, applicable codes, and the instructions of the authority having jurisdiction is mandatory.

While every precaution has been taken during the preparation of this manual to ensure the accuracy of its contents, UTCFS assumes no responsibility for errors or omissions.

Product Warnings

YOU UNDERSTAND THAT A PROPERLY INSTALLED AND MAINTAINED ALARM/SECURITY SYSTEM MAY ONLY REDUCE THE RISK OF EVENTS SUCH AS BURGLARY, ROBBERY, FIRE, OR SIMILAR EVENTS WITHOUT WARNING, BUT IT IS NOT INSURANCE OR A GUARANTEE THAT SUCH EVENTS WILL NOT OCCUR OR THAT THERE WILL BE NO DEATH, PERSONAL INJURY, AND/OR PROPERTY DAMAGE AS A RESULT.

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THE EQUIPMENT SHOULD ONLY BE OPERATED WITH AN APPROVED POWER ADAPTER WITH INSULATED LIVE PINS.

DO NOT CONNECT TO A RECEPTACLE CONTROLLED BY A SWITCH.

THIS UNIT INCLUDES AN ALARM VERIFICATION FEATURE THAT WILL RESULT IN A DELAY OF THE SYSTEM ALARM SIGNAL FROM THE INDICATED CIRCUITS. THE TOTAL DELAY (CONTROL UNIT PLUS SMOKE DETECTORS) SHALL NOT EXCEED 60 SECONDS. NO OTHER SMOKE DETECTOR SHALL BE CONNECTED TO THESE CIRCUITS UNLESS APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

WARNING: The equipment should only be operated with an approved power adapter with insulated live pins.

Caution: Risk of explosion if battery is replaced by an incorrect type. Dispose of batteries according to the instructions. Contact your supplier for replacement batteries.

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This publication may contain examples of screen captures and reports used in daily operations. Examples may include fictitious names of individuals and companies. Any similarity to names and addresses of actual businesses or persons is entirely coincidental.

The illustrations in this manual are intended as a guide and may differ from your actual unit as ZeroWire is continually being improved.

Intended Use

Use this product only for the purpose it was designed for; refer to the data sheet and user documentation. For the latest product information, contact your local supplier or visit us online at www.utcfireandsecurity.com.

The system should be checked by a qualified technician at least every 3 years and the backup battery replaced as required.

Advisory messages

Advisory messages alert you to conditions or practices that can cause unwanted results. The advisory messages used in this document are shown and described below.

WARNING: Warning messages advise you of hazards that could result in injury or loss of life. They tell you which actions to take or to avoid in order to prevent the injury or loss of life.

Caution: Caution messages advise you of possible equipment damage. They tell you which actions to take or to avoid in order to prevent the damage.

Note: Note messages advise you of the possible loss of time or effort. They describe how to avoid the loss. Notes are also used to point out important information that you should read.

LIABILITY

The services and products provided by UHS, when installed and commissioned, are only intended to provide a communications path between the equipment and a supervision center to the extent that is reasonably practicable by use of such goods and services.

DISCLAIMER

The manufacturer or his agents disclaim responsibility for any damage, financial loss or injury caused to any equipment, property or persons resulting from any use of this equipment. The manufacturer is not liable for any purely economic loss arising from any use of this equipment. All responsibility and liability in the use of UHS products are assumed by the user.

This unit is designed to be used in customer premises. Use of this equipment in other locations may void warranty. This unit is not intended for use in marine environments or water borne vessels.

UHS may make changes to features and specifications at any time without prior notification in the interest of ongoing product development and improvement.

USER OR BYSTANDER EME PROXIMITY LIMITATION

The antenna must be located greater than 20cm from any user or bystander.

LICENSE INFORMATION

This product uses FreeRTOS V8.2.0, the FreeRTOS source code can be obtained by a request in writing to UHS Pty Ltd, PO Box 6264, South Sydney Business Hub, Alexandria, NSW, 2015, Australia