



JANUS
TECHNOLOGY



Control4 Driver

for

iRoom's iBezel, iTop, iTop Plus, iTop OnWall
and touchDock (V007).



Introduction

This document is a short installation guide for the Control4 drivers for the iRoom family of next generation iPad docking stations. The docking stations provide quick access buttons and digital inputs that can be used to send events to the Control4 system, whilst also allowing operation of the dock and audible / visual feedback from the Control4 system.

The driver receives events from the dock (buttons, digital inputs and proximity sensor) that can then trigger further automation within Control4. These inputs are modelled as CONTACT_SENSORS within Control4 and can be integrated into Composer in the standard manner.

Some product versions also have an integrated RELAY output that is made available as a RELAY proxy in Composer.

Additional features of the products are then made available with custom commands.

Driver Installation

Copy the .c4i file for your product from the zip package to your Control4 Drivers folder (for example, "My Documents\Control4\Drivers") and then open Composer. Within Composer, the drivers can be found under:

Device Type: Others

Manufacturer: iRoom

Model: iBezel, iTop, iTop Plus, iTop OnWall or touchDock






















The screenshot shows the 'Items' window in the Control4 Composer application. The 'My Drivers' tab is active. The 'Local Database' radio button is selected. The 'Device Type' dropdown menu is set to '-- others --' and the 'Manufacturer' dropdown menu is set to 'iRoom'. Below these filters, a table displays the results:

| Name | Manufacturer | Model |
|--------------|--------------|--------|
| iRoom iBezel | iRoom | iBezel |









Driver Connections



The IP address of the dock is configured in the normal manner (Connections > Network).

The driver also exposes the iBezel Proximity Sensor, Buttons and Digital Inputs as CONTACT_SENSOR proxies, and the embedded relay as a RELAY proxy (the exact range of connections will depend on the product type). The product mode (normal or TouchCode mode) is exposed as a CONTACT_SENSOR called **product-name Mode** (e.g. iTop Mode) which will be closed when in normal mode. Additionally the Dock status itself (Docked / Undocked) is also exposed as a controllable relay and an event.

| Name | Type | Connection | Input/Output |
|---|---------|----------------|--------------|
| Control Outputs | | | |
|  Relay | Control | RELAY | Output |
|  Dock | Control | RELAY | Output |
|  Proximity Sensor | Control | CONTACT_SENSOR | Output |
|  Button Home | Control | CONTACT_SENSOR | Output |
|  Button 1 | Control | CONTACT_SENSOR | Output |
|  Button 2 | Control | CONTACT_SENSOR | Output |
|  Button 3 | Control | CONTACT_SENSOR | Output |
|  Button 4 | Control | CONTACT_SENSOR | Output |
|  Button 5 | Control | CONTACT_SENSOR | Output |
|  Button 6 | Control | CONTACT_SENSOR | Output |
|  Button 7 | Control | CONTACT_SENSOR | Output |
|  Button 8 | Control | CONTACT_SENSOR | Output |
|  Digital Input 0 | Control | CONTACT_SENSOR | Output |
|  Digital Input 1 | Control | CONTACT_SENSOR | Output |
|  Digital Input 2 | Control | CONTACT_SENSOR | Output |
|  Digital Input 3 | Control | CONTACT_SENSOR | Output |
|  Digital Input 4 | Control | CONTACT_SENSOR | Output |
|  Digital Input 5 | Control | CONTACT_SENSOR | Output |
|  Digital Input 6 | Control | CONTACT_SENSOR | Output |
|  Digital Input 7 | Control | CONTACT_SENSOR | Output |
|  Digital Input 8 | Control | CONTACT_SENSOR | Output |

To access these from the Control4 GUI or from programming it is necessary to instantiate a GUI element e.g. a Sensor (C4 provide several suitable GUI elements, including Motion Sensor, Door Bell, Contact Switch etc) and make connections to the appropriate contact sensor on the driver. Events can then be done via the Programming tab

| Control Outputs | | | | |
|--|---------|----------------|--------|-------------------------------|
|  Relay | Control | RELAY | Output | iBezel Relay->Relay |
|  Dock | Control | RELAY | Output | iBezel Dock->Relay |
|  Proximity Sensor | Control | CONTACT_SENSOR | Output | Motion Sensor->Contact Sensor |
|  Button Home | Control | CONTACT_SENSOR | Output | Home Button->Contact Sensor |
|  Button 1 | Control | CONTACT_SENSOR | Output | |
|  Button 2 | Control | CONTACT_SENSOR | Output | |
|  Button 3 | Control | CONTACT_SENSOR | Output | |
|  Button 4 | Control | CONTACT_SENSOR | Output | |

| CONTACT_SENSOR Input Devices | | | |
|---|----------------|------------|--------------------------------|
| Device | Name | Location | Connections |
|  Home Button | Contact Sensor | Plant Room | iRoom iBezel->Button Home |
|  Motion Sensor | Contact Sensor | Plant Room | iRoom iBezel->Proximity Sensor |

Driver Properties

The drivers contain some read-only properties that are useful for diagnostic purposes.

Properties

Properties

List V

Properties

Properties

Documentation

Lua

Driver Version

001

Operational Status

Unknown

Debug Mode

Off

Debug Subsystems

*

Debug Level

0

Operational Status

connection status, showing working OK, or reporting any errors. For example:

- *Connection OK*
- *No IP Comms* (check device is powered and accessible)

Driver Commands

The driver provides some commands for programming, they are the following:

| Command | iBezel | iTop | iTop Plus, iTop OnWall, touchDock |
|----------------------|--------|-----------------|-----------------------------------|
| Beep | Y | Y | Y |
| Operate Dock | Y | N | Y |
| Set Button LED Level | Y | Y (1 to 6 only) | Y (1 to 6 only) |
| Reboot | Y | Y | Y |
| Set Volume Level | Y | Y | Y |
| Set Music Level | Y | Y | Y |

Driver command description.

| Command | Parameters |
|------------------------|--|
| Beep | Duration 0.1 to 10 seconds |
| Operate Dock | Open, Close, Toggle |
| Set Button LED Level | 0 to 100% (Brightness) |
| Reboot | NONE |
| Control Volume | Volume Get, Volume Up, Volume Down, Volume Mute, Volume Unmute, Volume Mute Toggle |
| Control Music Playback | Play, Pause, Play/Pause, Next, Previous |

Driver Events

The driver provides a number of Events that can be used to trigger automation. Events are raised for the following:

| | |
|----------------------------------|-------------------------------|
| <i>product</i> Docked | iPad has just been Docked |
| <i>product</i> Undocked | iPad has just been Undocked |
| Button <i>X</i> Pressed* | Button has just been pressed |
| Button <i>X</i> Released* | Button has just been released |

product is the name of the product, e.g. iTop

X is a number from 1-6

In addition, there are standard Control4 events that are generated by attached CONTACT_SENSOR and RELAY proxies.

