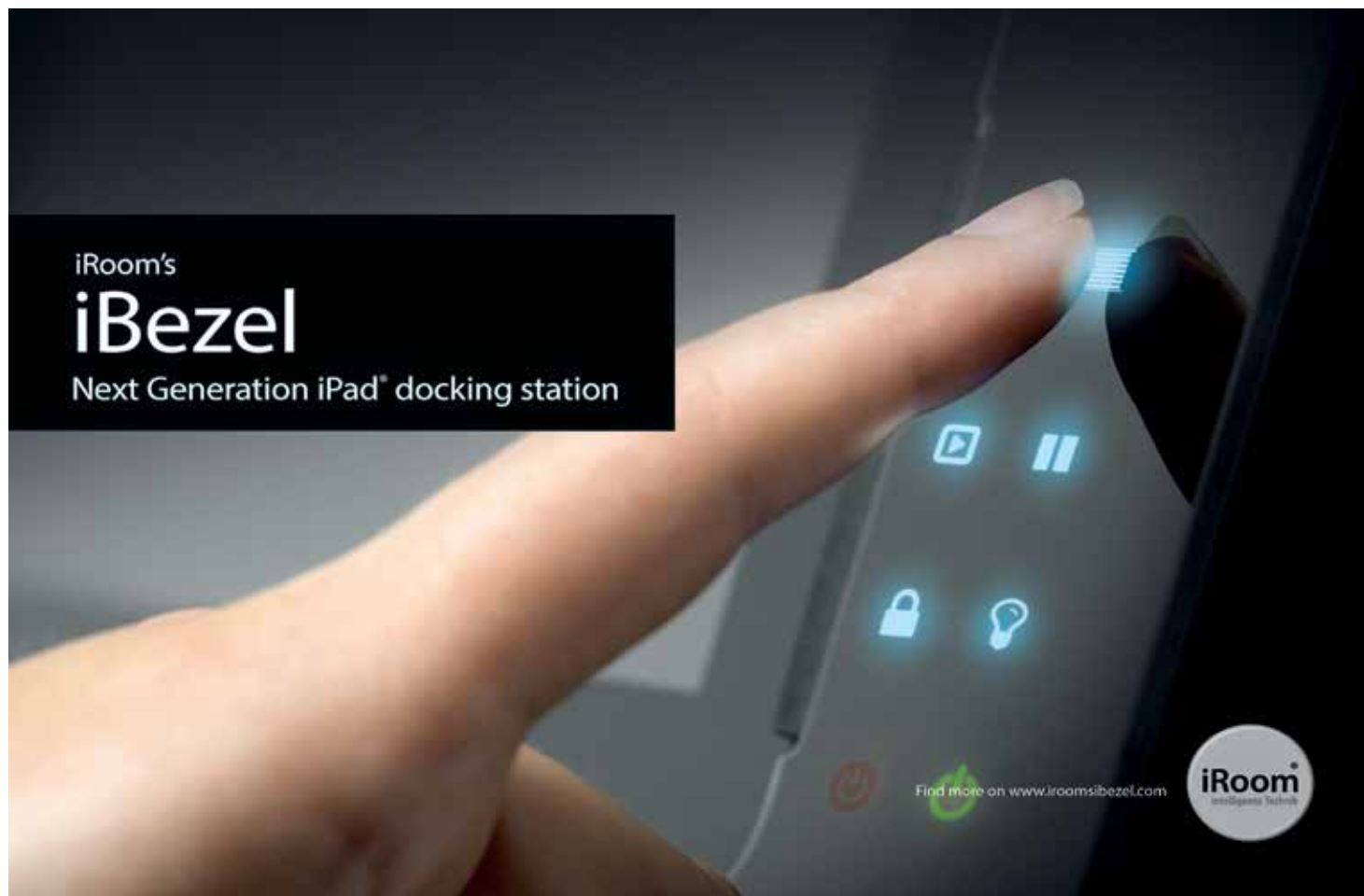




RTI Module

for iRoom's iBezel



1 - Introduction

This document will assist RTI programmers and installers with the integration of this module into their RTI program. The module was designed to integrate an iRoom iBezel dock into an RTI system. This driver has been designed to provide two-way control of an iRoom iBezel iPad dock via TCP/IP.

This driver has been written and tested using the following products:

- RTI Integration Designer (v9.4.1.3962)
- RTI XP-8 Processor (FW v3.10.2)
- iRoom iBezel Firmware Version 1.2

2 - Driver Installation & Configuration

Open your RTI Integration Designer system file (or use the demo programming file entitled "iBezelDemo.rti"). Select your XP series processor from the **System Workplace** window and choose the **Drivers** tab. Driver release version: 1.0

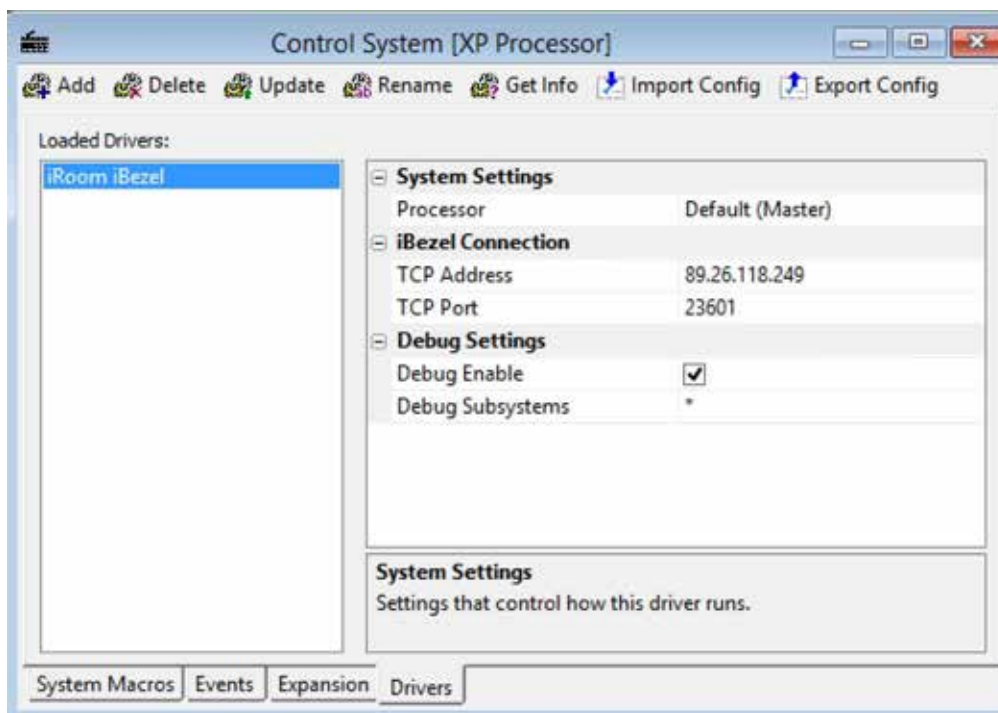


Figure 1: Driver Properties

If the Avenview driver does not appear in the **Loaded Drivers** list, select **Add** and choose to open the “iRoom_iBezel.rtidriver” file from the driver package.

Setting	Description
System Settings	Processor - the XP-series processor running the driver.
iBezel Connection	TCP Address - The IP address on the LAN for the iBezel (default = 192.168.0.100). TCP Port - the port used for TCP communication with the iBezel (default = 13601).
Debug Settings	Enable Trace - SUPPORT USE ONLY Debug Subsystems - SUPPORT USE ONLY

3 - Driver Commands

The driver features a number of commands used to operate the iBezel. Commands can be added to buttons or macros in the usual way.



Figure 2: Driver Commands

Command	Description
SetButtonLED	This command is used to set the brightness level of the iBezel's button LEDs. Button – choose a button LED. Level – set the brightness of the LED (0-100).
Operate Dock	This command is used to open or close the dock, in order to attach an iPad.
Operate Relay	This command is used to operate the relay built into the iBezel.
Beep	This command is used to sound the iBezel's beeper (specify a duration, in tenths of a second).

4 - Driver Variables

The driver features a number of variables, providing feedback from the iBezel.

Variable	Description
Button x Status	Reports when a button on the iBezel is pressed.
Digital Input x Status	Reports when a digital input changes state.
iBezel Mode	Reports the status of iBezel mode.
Dock Docked Status	A Boolean variable reporting dock status.
Plug-drive Docked Status	A Boolean variable reporting the status of the plug drive.
Clack-drive Docked Status	A Boolean variable reporting the status of the clack drive.
Dock Status	A text variable reporting dock status (i.e. docked, docking, undocked, undocking).
Plug-drive Status	A text variable reporting plug drive status (i.e. docked, docking, undocked, undocking).
Clack-drive Status	A text variable reporting clack drive (i.e. opening, closing, opened, closed).
Button x LED Level	An integer variable reporting the brightness level of the button LEDs.
Relay Status	A Boolean variable reporting the status of the relay.
Motion Status	A Boolean variable reporting the status of the motion detector.
IR Detector Level	An integer variable reporting the IR detector level.

5 - Driver Events

Events generated in the iBezel can be detected by the driver and used to subsequently stimulate macros in the RTI system.

Event	Description
Button x Pushed	Generated when a button is pressed.
Button x Released	Generated when a button is released.
Digital x Closed	Generated when a digital input is closed.
Digital x Opened	Generated when a digital input is opened.
Proximity Sensor Active/Inactive	Generated when the proximity sensor is activated or de-activated.
Relay Closed/Opened	Generated when the relay output is opened or closed.
Dock Docked/Undocked	Generated when the iPad is docked or undocked.
Plug Drive Docked/Undocked	Generated when the plug drive is docked or undocked.
Clack Drive Docked/Undocked	Generated when the clack drive is docked or undocked.
Dock iBezel/iTouch Mode	Generated when the iBezel is in iBezel or iTouch mode.

6 - Troubleshooting

The driver cannot control the iBezel

Check that the IP address and port number of the iBezel have been correctly entered into the driver properties.

Confirm there are no other devices are connected to the iBezel via TCP.