Flex Tech Note # 3

Remotely Controlling a Flex

It is possible to control a FLEX-LT200 via its Ethernet port. In general, any button action can be sent to a remote Flex to be processed.

For the purpose of this document, the term Local Flex refers to the Flex sending commands to another Flex and Remote Flex refers to the Flex receiving remote commands and acting upon them.

You should send commands to the Remote Flex as a Send Inline IP Command. The following is an example of what a command would look like to tell the Remote Flex at IP address 192.168.0.70 to go to the home screen:
IP 192.168.0.70:23 INLINE 'action = GoTo 2<0D>'

These commands should be hand typed into the Action window. Substitute the IP address of your remote Flex panel with the one shown in the example. The :23 after the IP address is the port number and is a constant.

The following is a list of commands that can be sent to a Remote Flex. All commands must be terminated with a carriage return <0D>. The example shown is an example of what should be typed into the Action List:

Command Name:	Send Command
Description:	Instruct the Flex to send a command from a project library to a project device
Syntax:	
IR Device	action = IR x, y "Device Name" "Command Name"
Where	x is the IR Port Number
	y is the number of times to repeat the command
	Device name is the EXACT name given to the device in the project
	Command Name is the EXACT name given to the desired command in the project
Example:	IP 192.168.0.70:23 INLINE 'action = IR 2, 3 "DVD2" "PLAY"<0D>'
Serial Device	Action = SER x "Device Name" "Command Name"
Where	x is the Serial Port Number
	Device name is the EXACT name given to the device in the project
	Command Name is the EXACT name given to the desired command in the project
Example:	IP 192.168.0.70:23 INLINE 'action = SER 4 "Relay" "RELAY CLOSE 1"<0D>'

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IP Device	Action = IP "Device Name" "Device Name" "Command Name"
Where	Device name is the EXACT name given to the device in the project
	The Device Name is repeated twice.
	Command Name is the EXACT name given to the desired command in the project
Example:	IP 192.168.0.70:23 INLINE 'action = IP "Switcher" "Switcher" "Take"<0D>'

Command Name: **Go To Screen**

Description: Instructs the Flex to change to a specified screen called a desktop

Syntax: Action = GoTo x

Where: x is the number of the desktop to display

You can determine the number for a particular desktop by looking at the Define Screens – Build Screen List tab in the Configuration Utility. Splash is desktop 0 and Home is desktop 1.

Example: IP 192.168.0.70:23 INLINE 'action = GoTo 1<0D>'

Command Name: **Wait**

Description: Instructs the Flex to pause execution for a specified amount of time

Syntax: action = WAIT x

Where: x is a value in milliseconds to wait

100 <= x => 60000

1 Second = 1000 milliseconds

Example: IP 192.168.0.70:23 INLINE 'action = WAIT 100<0D>'

Command Name: **Beep**

Description: Instructs the Flex to Beep

Syntax: action = BEEP

Example: IP 192.168.0.70:23 INLINE 'action = BEEP<0D>'

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Command Name:	**Button Press**
Description:	Performs a virtual press of the specified button
Note:	Small buttons are referred to as Buttons.
	Large buttons are referred to as Source.
Syntax:	action = VPRESS Desktop x Button/Source y
Where:	x is the number of the desktop containing the button to press
	y is the number of the Button or Source to press
	The Button / Source number can be determined from the Define Screens – Assign Button Actions tab in the CU. Select the screen containing the button to press and then select the button. Beside the graphic of the button is the designator for that button.
Example:	IP 192.168.0.70:23 INLINE 'action = VPRESS desktop 4 button 3<0D>'
	IP 192.168.0.70:23 INLINE 'action = VPRESS desktop 5 source 6<0D>'

Command Name:	**Button State**
Description:	Set the state of a toggle button to a specific value
Syntax:	action = SET STATE x Desktop y Button /Source z
Where	x is the state (0 or 1)
	y is the Desktop Number
	z is the Button/Source Number
Example:	IP 192.168.0.70:23 INLINE 'action = SET STATE 1 desktop 3 button 4<0D>'
	IP 192.168.0.70:23 INLINE 'action = SET STATE 0 desktop 2 source 1<0D>'

Command Name:	**Send Inline Serial Message**
Description:	Sends a serial command to a device connected to the Flex
Syntax:	action = SER x INLINE "Serial Command"
Where:	x is the number of the serial port
	Serial Command is the serial command to send to the device
Example:	IP 192.168.0.70:23 INLINE 'action = SER 3 INLINE "ICREC 1 1<0D 0A>" <0D>'

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Command Name: **Send Inline IP Command**

Since this sends a command to an IP device and the Local and Remote Flex panels are already on the same network as the target device, send the command directly from the Local Flex.

Command Name: **Log Command Action**

Description: Register an event in the Flex's log.

Syntax: action = LOG 'Event Type' 'Event Name'

Where: Event Type is the type of Event that is occurring such as Source Change

        Event Name is the specific event that occurs such as DVD

Example: IP 192.168.0.70:23 INLINE 'action = LOG "Source Change" "DVD"<0D>'

Command Name: **Set / Clear GPIO**

Description: Instructs the Flex to Set, Clear or Pulse a GPIO port

Syntax: action = IO x Operation

Where: x is the GPIO Port Number

        Operation is OPEN to open the port, Close to port or Pulse to pulse the port

Example: IP 192.168.0.70:23 INLINE 'action = IO 2 pulse<0D>'

Command Name: **Touch Lockout**

Description: Instructs the Flex to ignore all screen touches for a specified amount of time.

Syntax: action = TOUCH LOCKOUT x

Where: x is the amount of time to lock the screen in milliseconds

        $100 <= x => 360000000$

        1 Second = 1000 Milliseconds

Example: IP 192.168.0.70:23 INLINE 'action = TOUCH LOCKOUT 100<0D>'