

## iTControl 2.0 Protocol

Version 2.0 support either IP or RS232 communication.

The communication type can be changed using “iTControl Setup.app” (installed in \Applications\Utilities folder)

### 1. Connecting to iTControl using IP protocol:

Connection Type: IP

Connection Port: 15111

Character Set: ASCII

### 2. Connecting to iTControl using RS-232:

\*\*\* for best performance use “KEYSPAN USA-19HS” USB to RS232 adaptor.

\*\*\* Use “startFB” and “stopFB” command to start/stop Automatic feedback from iTunes.

Speed: 57600

Data Bit: 8

Stop Bit: 1

Parity: None

Flow Control: Off

### 3. iTControl will report back automatically the following changes on iTunes:

1. Player Status: “<Playing>”, “<Paused>”

2. Current Playing Track: see note1 for syntax.

3. Shuffle status of active playlist: “Shuffle<on>Shuffle”, “Shuffle<off>Shuffle”

### Command Syntax:

[Command][Space][“Arg1”][\$][“Arg2”][-][“Arg3”][CR + LF]

- [CR+LF] = 0Dh 0Ah

### Apple FrontRow Control Commands:

Command	Arg1	Arg2	Arg3	Example
FR-Start	-	-	-	“FR-Start 0Dh 0Ah” - Starts/Stops FrontRow
FR-Up	-	-	-	“FR-Up 0Dh 0Ah” - Emulates Up Button in Apple IR Remote
FR-Down	-	-	-	“FR-Down 0Dh 0Ah” - Emulates Down Button in Apple IR Remote
FR-Left	-	-	-	“FR-Left 0Dh 0Ah” - Emulates Left Button in Apple IR Remote
FR-Right	-	-	-	“FR-Right 0Dh 0Ah” - Emulates Right Button in Apple IR Remote
FR-Select	-	-	-	“FR-Select 0Dh 0Ah” - Emulates Play/Pause Button in Apple IR Remote
FR-Menu	-	-	-	“FR-Menu 0Dh 0Ah” - Emulates Menu Button in Apple IR Remote

## Apple iTunes Control Commands:

### Basic Commands:

Command	Arg1	Arg2	Arg3	Example
Play	-	-	-	"Play 0Dh 0Ah" - Starts Playing
Pause	-	-	-	"Pause 0Dh 0Ah" - Pause the Player
Rewind	-	-	-	"Rewind 0Dh 0Ah" - Rewind The Player
Fast-Forward	-	-	-	"Fast-Forward 0Dh 0Ah" - F.F The Player
Back-Track	-	-	-	"Back-Track 0Dh 0Ah" - Will go one track Back in the List
Next-Track	-	-	-	"Next-Track 0Dh 0Ah" - Will go one track Forward in the List
Previous-Track	-	-	-	"Previous-Track 0Dh 0Ah" - Will go to the previously played track
Get-Current	-	-	-	Returns the currently playing track (See Note 1)
PlayerStatus	-	-	-	"PlayerStatus 0Dh 0Ah" - returns the player Status (Play,Stop)
SetVideoWindow	Full/Fit/Actual/Close		-	SetVideoWindow Full 0Dh 0Ah – Set the video window size to full screen
Shuffle	On/Off/Get		-	Shuffle On 0Dh 0Ah – Sets the active playlist mode to Shuffle.
StartFB	-	-	-	StartFB 0Dh 0Ah – Starts FeedBack on RS-232 Communication.
StopFB	-	-	-	StopFB 0Dh 0Ah – Stop FeedBack on RS-232 Communication.

### Note 1:

Currently Playing Track Syntax:

{“TrackName”\$”TrackArtist”\$”TracAlbum”\$”TrackKind”}

Example:

Sending : Get-Current 0Dh 0Ah

Returns: {Fearless\$Pink Floyd\$Meddle\$AAC Audio File}

### Advanced Commands:

#### Get-PlayListsName:

Command	Arg1	Arg2	Arg3	Example
Get-PlayListsName	-	From Line	To Line	Get-PlayListName 1-6 0Dh 0Ah
Respond:	LibraryName<Music\$Movies\$TV Shows\$Podcasts\$Radio\$iPod>LibraryName			

