Last updated 2/27/2015 by Shawn Bulen (shawnb)	FTP Modes & Features				
VGuitarForums.com	Basic Mode	Hardware Mode	FTP App/VST	Notes	
Description	Simple setup - the perfect mode mosi of the time. No splits. No Pedal channel. Defaults to Poly mode & Trig PB mode; Mono available with MIDI controller. Does not require the FTP App/VST for either programming or operation.	hardware synths without the use of a PC. Provides most FTP features, e.g., string splits, Poly & Mono modes & all string bend modes. The controller must be programmed using the FTP	FTP including string & fret splits, Poly		
How to launch	Power up without the FTP App or VST running & without holding any d-pad buttons		Whenever an instance of the FTP App or VST plugin is running, you are in this mode		

## Controls

controls				
UP & DOWN	Sends MIDI PCs, Program Changes	Patch Changes - scrolls thru the	Not Song Mode: All User Patches	
		patches you created in the FTP App.	Song Mode: Patch Changes in Song	
ENTER & BACK	Toggles between Trig & Auto string	Unknown - "Flying Blind"	Menu Tree Navigation	Avoid using ENTER & BACK when in Hardware Mode
	bend modes			
Volume	Transmits Volume on CC#7	Transmits Volume on CC#7	Transmits Volume on CC#7	Volume (CC#7) is not xmitted when Guitar-Mix-Synth
				switch is set to Guitar
Guitar-Mix-Synth	Will zero out Synth volume when	Will zero out Synth volume when	Controls FTP mixer; will zero out	Volume (CC#7) is not xmitted when Guitar-Mix-Synth
	Guitar selected.	Guitar selected.	Synth volume when Guitar is selected	switch is set to Guitar
			& Guitar volume when Synth is	
			selected.	

## Features Available

Poly	Yes	Yes	Yes	
Mono	Yes (Reqs MIDI Controller, CC#126)	Yes	Yes	
Trig PB mode: Chromatic	Yes (Use ENTER & BACK to toggle)	Yes	Yes	Chromatic
Auto PB Mode	Yes (Use ENTER & BACK to toggle)	Yes	Yes	Non-Chromatic (Whammy, Bends, Legato, Slide)
Smooth PB Mode	No	Yes	Yes	Non-Chromatic (Whammy, Bends, Legato, Slide)
Stepped PB Mode	No	Yes	Yes	Chromatic variation
Song Mode	No	No	Yes	Allows for instantaneous patch changes within a song
Splits - by string	No	Yes	Yes	
Splits - by fret	No	Yes	Yes	
Different Dynamics Settings per Patch	No	Yes	Yes	
Mixer master volume control (via CC#80)	No	No	Yes	Option must be set under Preferences
UI Funcs, e.g.: Tuner, Patch Editing, Song Editing,	No	No	Yes	
Load Controller, Mixer, Set PBR, Tuning <> A440, etc.				
Pedal functions				
Sustain	Yes	Yes	Yes	If no Pedal Chan defined, CC#66 performs sustain
Invoke Pedal channel	No	Yes	Yes	If Pedal Chan defined, CC#66 toggles Pedal Chan
Menu Tree Functions				
Change Sensitivity	No	Unknown - "Flying Blind"	Yes	Avoid using ENTER & BACK when in Hardware Mode
Tuner	No	Unknown - "Flying Blind"	Yes	Avoid using ENTER & BACK when in Hardware Mode
Change PBR	No	Unknown - "Flying Blind"	Yes	Avoid using ENTER & BACK when in Hardware Mode
Change Patch Parameters	No	Unknown - "Flying Blind"	Yes	Avoid using ENTER & BACK when in Hardware Mode

Last undated 2/27/2015 by Shawn Bulen (shawnb)

## **FTP Midi Implementation**

Last updated 2/27/2015 by Shawn Bulen (shawnb)		FIP Wild Implementation						
VGuitarForums.com		Basic	Mode	Hardwa	are Mode	FTP A	pp/VST	Notes
MIDI Implementa	tion	Transmit	Receive	Transmit	Receive	Transmit	Receive	
Function	MIDI Messages Used							
MIDI Clock	MIDI Clock	No	No	No	No	No	No	Clock/tempo not passed to hosted VSTs
POLY setting	CC#127	No	Yes	No	Yes	No	Yes	FTP honors the CC#127 standard MIDI POLY msg
MONO setting	CC#126	No	Yes	No	Yes	No	Yes	FTP honors the CC#126 standard MIDI Mono msg
Master Volume	CC#80	No	No	No	No	No	Yes	Option to control patch volume in the App/VST
Performance								
Notes	Note ON & Note OFF	Yes	No	Yes	No	Yes	No	
Notes	Various CCs On Channel 8	No	No	No	No	Yes	No	
Bends/Legato	Wheel events	Yes	No	Yes	No	Yes	No	Not sent in TRIG pitchbend mode
Controls								
	Program Change	Yes	No	Yes	No	Yes	No	
UP & DOWN	Various CCs On Channel 8	No	No	Yes	No	Yes	No	Helpful to know, can help with scripting
BACK & ENTER	Various CCs On Channel 8	Yes	No	Yes	No	Yes	No	Helpful to know, can help with scripting
Volume	CC#7	Yes	No	Yes	No	Yes	No	
Guitar-Mix-Synth	Various CCs On Channel 8	Yes	No	Yes	No	Yes	No	Helpful to know, can help with scripting
Pedal Functions								
Sustain	CC#66	No	Yes	No	Yes	No	Yes	If no Pedal Channel defined, performs sustain
Pedal Channel	CC#66	No	No	No	Yes	No	Yes	If Pedal Channel defined, toggles Pedal Channel
Upon Power Up						_		
Set PBR	RPN, CCs #6, #38, #100 & #101	Yes	No	Yes	No	Yes	No	Sends RPN to change the synth PBR to match the FTP
Synth Tuning	RPN, CCs #6, #38, #100 & #101	Yes - A440 only	No	Yes	No	Yes	No	Sends RPN to tune synth to match the FTP Tune Base
Volume	CC#7	Yes	No	Yes	No	Yes	No	Value based on Volume & Guitar-Mix-Synth settings
Pitch Bends	Wheel Events => 0	Yes	No	Yes	No	Yes	No	Zero out all wheels/bends
All Notes OFF	All Notes OFF	Yes	No	Yes	No	Yes	No	
Expression	CC#11	Yes - to 7FH	No	Yes	No	Yes	No	Matches "Volume" Slider setting for User Patch #1
Reverb	CC#91	No	No	Yes	No	Yes	No	Matches "Reverb" Slider setting for User Patch #1
Program Change	PC & CC#0 & CC#32	Yes - All zero	No	Yes	No	Yes	No	Matches Program Change settings for User Patch #1
Upon Patch Changes (I	JP & DOWN)							
Expression	CC#11	No	No	Yes	No	Yes	No	Matches "Volume" Slider for selected User Patch
Reverb	CC#91	No	No	Yes	No	Yes	No	Matches "Reverb" Slider for selected User Patch
Program Change	PC & CC#0 & CC#32	Yes - PC only	No	Yes	No	Yes	No	Matches PC settings for selected User Patch
Pitch Bends	Wheel Events => 0	No	No	Yes	No	Yes	No	Zero out all wheels/bends
Channel 8	Various CCs	Yes	Yes	Yes	Yes	Yes	Yes	Channel 8 is used for comms between the Controller 8 App/VST. Avoid using Channel 8 in your rig.
FTP Control Ports	Various CCs & Sysex Messages	Yes	Yes	Yes	Yes	Yes	Yes	Never access/attempt to use the Fishman Control Ports in your configuration. Unpredictable behavior will result. Used for communication between the Controller & App/VST.

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FTP Channel Usage					
		Mono Mode	Poly Mode		
Output	Purple (Synth 1) & Green (Synth 2)	Channels 1-6	Channel 1		
Output	Pedal Channel	Channel 7	Channel 2		
Output	FTP Internal Usage	Channel 8	Channel 8		
Output	Splits: Blue (Synth 3) & Yellow (Synth 4)	Channels 11-16	N/A		
Input	Messages TO the FTP (e.g., Pedal, Mono/Poly)	Channel 1	Channel 1		

Notes: - No Splits & No Pedal Channel in Basic Mode

- No Splits in Poly Mode