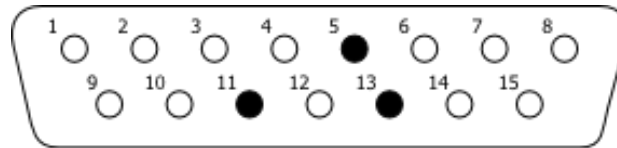




DK T7 GPIO



- | | |
|------------------|--------------------|
| 1: USB GND | 9: VBus (USB 5V) |
| 2: D+ USB | 10: D- USB |
| 3: Supply 15V | 11: Pwr GND |
| 4: HP Left | 12: HP Right |
| 5: GPIO 0 | 13: GPIO 1 |
| 6: Ana 1+ | 14: Ana 1 - |
| 7: Ana GND | 15: Ana 2 - |
| 8: Ana 2+ | |

DK T7 Hardware GPIO – External Hardware Control

DK T7 features two hardware GPIO's positioned on pin 5 and 13 on the 15 pin SubD connector.

By shorting these two pins to ground (pin11), the GPIO is activated.

The two GPIO functions corresponds to the two leftmost horizontal on-screen buttons.

The specific function of these (and any other) on screen button, may be determined completely freely by the end-user.



The following functions are available:

Function	Group	Note
None	Preset	Blank Button
[preset 1 name]	Preset	Recalls # Preset
[preset 2 name]	Preset	Recalls # Preset
[preset 3 name]	Preset	Recalls # Preset



[preset 4 name]	Preset	Recalls # Preset
[preset 5 name]	Preset	Recalls # Preset
[preset 6 name]	Preset	Recalls # Preset
[preset 7 name]	Preset	Recalls # Preset
[preset 8 name]	Preset	Recalls # Preset
[preset 9 name]	Preset	Recalls # Preset
[preset 10 name]	Preset	Recalls # Preset
[preset 11 name]	Preset	Recalls # Preset
StarFish	Application	Selects StarFish View
Graph LEQ	Application	Selects Graph LEQ View
FFT1024	Application	Selects FFT View
Loudness	Menu	Calls up the Horizontal Button set called 'Loudness'
Preset	Menu	Calls up the Horizontal Button set called 'Preset'
Main	Menu	Calls up the Horizontal Button set called 'Main'
PHSE SRC	Menu	Calls up 'Phase meter' source select button set 1-8
PHSE SRC+		Calls up 'Phase meter' source select button set 9-16
Setup	Software	Access the Advanced Setup Menu
Preset	Software	Access the Preset List in the Advanced Setup Menu
FFT1024	Software	Selects FFT view and Adds Vertical FFT button set
Peak	Meter	Enables Peak indication on the Bar-graphs
Hold	Meter	Enables Peak hold indication on the Bar-graphs (requires Peak to be enabled)
Clear	Meter	Clears Peak Hold
+20dB	Meter	Gains meter input by 20dB to allow 'zoom' on lower level signals
Shorttrm	Loud	Selects Shortterm Loudness indication in Text Readouts set to 'Loudness Select'
Integrated	Loud	Selects Integrated Loudness indication in Text Readouts set to 'Loudness Select'
Start	Loud	Starts Loudness Reading
Stop	Loud	Stops latest Loudness Reading
Resume	Loud	Resumes the current Loudness Reading
3 Sec	Loud	Sets Shortterm Loudness Window to 3 sec
10 sec	Loud	Sets Shortterm Loudness Window to 10 sec
30 sec	Loud	Sets Shortterm Loudness Window to 30 sec
Left	Function	Selects Left Input only
Right	Function	Selects Right Input only
Test	Function	Reserved for internal use



External Software Control

Similar to the hardware GPIO, a serial port software remote function may be set to remote control the same two on-screen buttons or more.

The Software remote function can be used as a standard telnet function, addressing the DK T7 through the USB serial port via a set of standard commands available from DK-Technologies upon request.

Again, the specific function of the on-screen buttons may be altered to the end-users liking.

Future Software control Functions

DK-Technologies plans to expand the software remote functions to allow a larger number of functions to be addressed, as well as offering the same functionality over integrated Ethernet connection in a future software release.

Coming function:

Start/Stop/Resume Automation via Time code

DK-Technologies plans to implement an automated loudness start/stop/resume functionality based on the incoming time code (SMPTE LTC).

This functionality further allows the user to alter and 're-measure' loudness of certain sections of an audio clip, without having the pass through the entire audio clip again.