**Dio module**

# API

|  |  |
| --- | --- |
| API | Usage |
| Dio\_init(\*DIO\_cfg\_ptr) | This API takes pointer to the configuration container of the Dio driver to initialize the configured pins |
| Dio\_WriteChannel (Dio\_ChannelType ChannelId, Dio\_LevelType Level) | This API take the channel id to take the needed port from it and takes the value to write it on the needed pin |
| Dio\_LevelType Dio\_ReadChannel(Dio\_ChannelType ChannelId) | This API take the channel id to take the needed port from it return the pin value |
| Dio\_LevelType Dio\_FlipChannel(Dio\_ChannelType ChannelId) | This API flips the value of the pin and returns it’s new value |

## Typedef

|  |  |
| --- | --- |
| Typedef | usage |
| Dio\_ChannelType | Used to set channel number for specific pin |
| Dio\_PortType | Used to select the port |
| Dio\_LevelType | Used to specify the initial value for pin |
| Dio\_PortLevelType | Used to specify the initial value for port |
| DIO\_CONFIGURED\_CHANNLES | Used to spicily the number of configured pin |
| PORT\_def\_Mode\_x | This typedef used to point to specific mode , if x equal adc then this is adc mode |