

12.4 CiBrdOpen

Prototype	BFRC CiBrdOpen(PCiENTRY <i>pEntry</i> , Bd <i>*pBoard</i> , BFU32 <i>Mode</i>)						
Description	Opens a board for access. This function must return successfully before any other LinX SDK functions are called (with the exception of CiSysBrdFind and CiSysBrdEnum functions).						
Parameters	<p><i>pEntry</i></p> <p>A pointer to a filled out CiENTRY structure. This structure describes which board is to be opened. The structure is filled out by a call to the CiSysBrdFind function.</p> <p><i>*pBoard</i></p> <p>A pointer to a board handle. This handle is used for all further accesses to the newly opened board. This function takes a pointer to a handle where as all other functions just take a handle.</p> <p><i>Mode</i></p> <p>This parameter allows for different modes of opening the board, one or more of these parameters can be ORed together:</p> <ul style="list-style-type: none"> 0 - board will open normally but not initialized. Board registers are not changed. CiSysInitialize - initialize the board. CiSysExclusive - open only if no other process has, and do not allow any subsequent process to open the board. CiSysNoIntThread - do not start interrupt IRP thread. CiSysNoCameraOpen - do not open any configured cameras. CiSysNoAlreadyOpenMess - suppress board already open message. 						
Returns	<table> <tr> <td>CI_OK</td><td>Function was successful.</td></tr> <tr> <td>CISYS_ERROR_OPENING</td><td>Error opening board.</td></tr> <tr> <td>CISYS_ERROR_BAD_ENTRY</td><td>Invalid entry passed to function. Be sure that the entry returned from CiSysBrdFind is passed this function.</td></tr> </table>	CI_OK	Function was successful.	CISYS_ERROR_OPENING	Error opening board.	CISYS_ERROR_BAD_ENTRY	Invalid entry passed to function. Be sure that the entry returned from CiSysBrdFind is passed this function.
CI_OK	Function was successful.						
CISYS_ERROR_OPENING	Error opening board.						
CISYS_ERROR_BAD_ENTRY	Invalid entry passed to function. Be sure that the entry returned from CiSysBrdFind is passed this function.						
Comments	<p>This function opens the board for all accesses. Call the CiSysBrdFind function to find the board you wish to open, then call this function to open to board. The board must be opened before any other functions can be called. When you are finished accessing the board you must call CiBrdClose, before exiting your process. Failure to call CiBrdClose will result in incorrect board open counts used by the driver.</p> <p>If this function fails, you cannot access the board. Also, you do not need to call CiBrdClose.</p>						

This function must be called once for each board that needs to be opened. Each board will have its own handle when opened. When you want to perform an operation on a certain board, pass the function the handle to that board.

You should only call this function once per process per board and in only one thread. You can call this function again in the same process but you must call CiBrdClose first.

Calling this function with *Mode* = CiSysInitialize initializes the board and sets it up for the first camera that is configured for this board. If another process has already opened the board using this flag, the board will not be re-initialized, but you will have access to the board in the state that it is.

The *Mode* = CiSysExclusive is designed to guarantee that only one process can have the board open at a time. If the board has already been opened with this flag you will not be able to open it again, regardless of the *Mode* parameter that you use. If in CiSysExclusive mode, you will not be able to open the board if any other process has already opened the board, regardless of the mode the other process used to open the board. Finally, if you do succeed in opening the board in this mode, no other processes will be allowed to open the board.