/\*=========================================================================

| GENERAL API

 ========================================================================\*/

/\*

 \* Get a list of ports to which Aardvark devices are attached.

 \*

 \* nelem = maximum number of elements to return

 \* devices = array into which the port numbers are returned

 \*

 \* Each element of the array is written with the port number.

 \* Devices that are in-use are ORed with AA\_PORT\_NOT\_FREE (0x8000).

 \*

 \* ex. devices are attached to ports 0, 1, 2

 \* ports 0 and 2 are available, and port 1 is in-use.

 \* array => 0x0000, 0x8001, 0x0002

 \*

 \* If the array is NULL, it is not filled with any values.

 \* If there are more devices than the array size, only the

 \* first nmemb port numbers will be written into the array.

 \*

 \* Returns the number of devices found, regardless of the

 \* array size.

 \*/

#define AA\_PORT\_NOT\_FREE 0x8000

int aa\_find\_devices (

 int num\_devices,

 u16 \* devices

);

/\*

 \* Get a list of ports to which Aardvark devices are attached.

 \*

 \* This function is the same as aa\_find\_devices() except that

 \* it returns the unique IDs of each Aardvark device. The IDs

 \* are guaranteed to be non-zero if valid.

 \*

 \* The IDs are the unsigned integer representation of the 10-digit

 \* serial numbers.

 \*/

int aa\_find\_devices\_ext (

 int num\_devices,

 u16 \* devices,

 int num\_ids,

 u32 \* unique\_ids

);

Aardvark GUI Configuration Screen







**Line 114:**

enum AardvarkStatus {

 /\* General codes (0 to -99) \*/

 AA\_OK = 0,

 AA\_UNABLE\_TO\_LOAD\_LIBRARY = -1,

 AA\_UNABLE\_TO\_LOAD\_DRIVER = -2,

 AA\_UNABLE\_TO\_LOAD\_FUNCTION = -3,

 AA\_INCOMPATIBLE\_LIBRARY = -4,

 AA\_INCOMPATIBLE\_DEVICE = -5,

 AA\_COMMUNICATION\_ERROR = -6,

 AA\_UNABLE\_TO\_OPEN = -7,

 AA\_UNABLE\_TO\_CLOSE = -8,

 AA\_INVALID\_HANDLE = -9,

 AA\_CONFIG\_ERROR = -10,

<aardvark>

 <configure i2c="1" spi="1" gpio="0" tpower="1" pullups="0"/>

 <spi\_bitrate khz="250"/>

 <spi\_write count="5" radix="16">02 C0 00 00 00</spi\_write>

 <!--LOCKED(0), LOOP\_POLARITY(1),2=Pos, 0=Neg -->

 <sleep ms="100"/>

 <spi\_write count="5" radix="16">03 00 00 00 00</spi\_write>

 <!--OFFSET(0), PD\_PLL(1), PFD\_PLLn(2),0=PFD/Offset, 6=PD/Offset -->

 <sleep ms="100"/>

 <spi\_write count="5" radix="16">03 40 00 00 00</spi\_write>

 <!--PLL\_SHORTn(0), LLF\_SHORTn(1), 0=loop locked? -->

 <sleep ms="100"/>

</aardvark>