

RS232 Commands for G3 AD board

Command		1	3	4	5	6	7	8	9	Note
Power	OFF	S	0	0	0	1	1	0	EN	
	ON							1		
Input Source	VGA	S	0	0	0	2	1	0	EN	
	HDMI 1							1		
	HDMI 2							2		
	HDMI 3							3		
	USB 1							4		
	USB 2							5		
Brightness	0%	S	0	0	0	3	2	00	EN	
	100%							64		
	Plus							65		
	Minus							66		
Contrast	0%	S	0	0	0	4	2	00	EN	
	100%							64		
	Plus							65		
	Minus							66		
Clock	0%	S	0	0	0	5	2	00	EN	
	100%							64		
Phase	0%	S	0	0	0	6	2	00	EN	
	100%							64		
Sharpness	0	S	0	0	0	7	2	00	EN	
	100%							64		
Horizontal Position	Minus	S	0	0	0	8	1	0	EN	
	Plus							1		
Vertical Position	Minus	S	0	0	0	9	1	0	EN	
	Plus							1		
OSD Time	5secs	S	0	0	0	C	1	0	EN	5secs, 10secs, 15secs, Never
	Never							3		

Color		S	0	0	1	0	1	0	EN	
								4		
Temperature		S	0	0	1	1	1	0	EN	
								5		
Language	0%	S	0	0	1	2	2	00	EN	
	100%							64		
	Plus							65		
	Minus							66		
Volume	OFF	S	0	0	1	3	1	0	EN	
	ON							1		
Zoom(Aspect Ratio)		S	0	0	1	4	0		EN	
Touch	OFF	S	0	0	1	6	1	0	EN	
	ON							1		
Freeze	OFF	S	0	0	1	7	0		EN	
	ON									
Auto Color		S	0	0	2	0	0		EN	
Auto Processing		S	0	0	2	1	0		EN	
Auto Ambient	OFF	S	0	0	2	2	1	00	EN	
	ON							01		
Auto Notification	OFF	S	0	0	2	3	1	00	EN	
	ON							01		
Serial Exclusive	OFF	S	0	0	3	0	1	0	EN	
	ON							1		
On Screen Menu		S	0	0	3	1	0		EN	
Monitor ID		S	0	0	F	F	1	0	EN	
								F		
Ping		S	1	0	5	0	0		EN	Note *
Query		S	1	0	5	1	2	00	EN	Note *, Note **
								FF		

Reset		S	0	0	F	0	0		EN	
Factory Mode		S	0	0	F	1	0		EN	

Engineer		S	0	0	F	2	2	0	EN	
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※Data format

Data will be transferred serially according to RS232 protocol using the following settings.

Female DB9DCE pin numbering and definitions: recommended communication rates are:

(higher baud rates

are fine but 9600 is by far the most common and is sufficient for the volume of data being transmitted)

Baud Rates	9600
Data Bits	8
Stop Bits	1
Parity	No

※Data structure

Note• All numbers shown in the protocol description are in string unless indicated otherwise.

Percentages are shown in decimal.

General Command Form

- STX. The first character is the standard Start of Text (STX) character 'S'.
- Address. The second character is the device address. If a device does not support addressing, these should be 0 and 9 to act as the global address.
- Type. The third character is the command type. There are four types of commands:
 - o Command0
 - o Ack1
 - o Nak2 (option)
 - o Notification 3 (option)
- Property ID. The four and fifth and characters are the property identifier. By using one byte we have 256
- Data Length. The sixth character is the number of characters in the parameter data section.
- Data. Following the sixth character is the parameter data section that is as many characters long as the sixth character indicates. If the sixth character is 00 (as with the Reset command for example) then there are no characters in the parameter section. This parameter section contains the value (hexadecimal) for the property.
- ETX. The last character is the standard End of Text (ETX) 'EN'.

Sample:

STX	Address	Type	Property ID		Length	Data	ETX
S	0	0	0	1	1	1	EN

In this example (Power On to everything), the Address character 0, which is the global address for all devices

connected to the serial port. The Type character is 0 to indicate the transmission is a command.

The Property ID

characters indicate a property identifier of 1, which in this protocol is the value for power. The

Length character is

a 1, which indicates that there is one character of data associated with this command. The Data has a value of 1,

which is the value for ON. The ETX is command End code.