

Addendum – Additional RS232/RS485 protocol information**CRC calculation:**

The CRC is calculated as below. The CRC is optional for commands sent to the switch. If the CRC is not used, bit 6 in first byte of command packet should be set to 0, otherwise 1 to utilize the CRC. Note: A CRC byte is always appended to responses from the unit.

CRC-8-Dallas/Maxim $x^8 + x^5 + x^4 + 1$ (1-Wire bus) 0x31 or 0x8C (0x19)

Polynom	31H
Inverted	8CH
Initial	00H
Final Xor	00H
Input Data	Reversed (Reflected)
Final Result	Reversed (Reflected)

Command Examples:

Numbers are Hex Bytes. Requests are shown with CRC and without CRC.
The response is the same whether or not CRC is appended to request

Request machine info and model

Request: 20 3F 00 00 F1 (or 00 3f 00 00)

Response: 80 0A C4 04 04 59 58 2D 33 30 34 34 C8
 Y X - 3 0 4 4

Audio and video supported, 4 output x 4 input,
4 memory locations, name = YX-3044

Request audio status for all, put in memory location 0

Request: 20 08 00 00 55 (or 00 08 00 00)

Response: 80 08 01 04 02 00 03 00 04 00 65

Output 1 to Input 4, Output 2 disconnected,
Output 3 disconnected, Output 4 disconnected

Command Examples (continued):

 Request video status for all, put in memory location 0

Request: 20 07 00 00 0A (or 00 07 00 00)
 Response: 80 08 01 04 02 00 03 00 04 00 65

Output 1 to Input 4, Output 2 disconnected,
 Output 3 disconnected, Output 4 disconnected

 Switch audio output 1 to input 4

Request: 20 02 01 04 9A (or 00 02 01 04)
 Response: 80 8C <- simple ack

 Request audio status for output 1, put in memory location 0

Request: 20 08 01 00 91 (or 00 08 01 00)
 Response: 80 02 01 04 33 <- output 1 connected to 4

 Switch video output 1 to input 4

Request: 20 01 01 04 7E (or 00 01 01 04)
 Response: 80 8C <- simple ack

 Request video status for output 1, put in memory location 0

Request: 20 07 01 00 CE (or 00 07 01 00)
 Response: 80 02 01 04 33 <- output 1 connected to 4

Error in Manual:

The Supported Output Port and Supported Input are simply numbers representing the number of ports. Individual bits do not represent ports as shown in manual. The corrected version is below:

Supported Output Port (ACK Type C)

SOP7	SOP6	SOP5	SOP4	SOP3	SOP2	SOP1	SOP0
Number of supported output ports							

Supported Input Port (ACK Type C)

SIP7	SIP6	SIP5	SIP4	SIP3	SIP2	SIP1	SIP0
Number of supported input ports							