

RS232 Protocol [Hex Mode]

Len 0x4d 0x41 0x52 0x44 0x43 0x48 0xff **Cmd Payload** Checksum

Len: the length from Len to Checksum

Cmd: command index

Payload: setting values

Checksum: sum from Len to Payload

Command List:

1. Set Power On/Idle

Power On:

0x0b 0x4d 0x41 0x52 0x44 0x43 0x48 0xff **0x00 0xaa** 0x63

Power Idle:

0x0b 0x4d 0x41 0x52 0x44 0x43 0x48 0xff **0x00 0x55** 0x0e

2. Get Port Mapping

0x0a 0x4d 0x41 0x52 0x44 0x43 0x48 0xff **0x01** 0xb9

Echo:

0xaa Len p1 p2 p3 p4 s1 s2 s3 s4 Pwd Checksum

Len: the length from Len to Checksum

p1 ~ p4: the mapping of each output port

s1 ~ s4: the status of each input port; 1: Source Exist, 0: Source Off

Pwd: Power Status; 1: Power On, 0: Power Idle

Checksum: sum from Len to Pwd

3. Set All Port Mapping

0x0e 0x4d 0x41 0x52 0x44 0x43 0x48 0xff **0x02** p1 p2 p3 p4 Checksum

pX: X indicate to 1 ~ 4 (output port 1 to 4); value from 1 ~ 4 (source 1 to 4)

4. Set Port Mapping

0x0c 0x4d 0x41 0x52 0x44 0x43 0x48 0xff **0x03** Port_Num Port_Value Checksum

Port_Num: Port from 1 to 4

Port_Value: Source from 1 to 4 or 0xc1; 0xc1 indicate to video output disable

EX: From input 1 to output 1

0x0c 0x4d 0x41 0x52 0x44 0x43 0x48 0xff 0x03 0x01 0x01 0xBF

EX: From input 2 to output 1

0x0c 0x4d 0x41 0x52 0x44 0x43 0x48 0xff 0x03 0x01 0x02 0xC0

EX: From input 3 to output 1

0x0c 0x4d 0x41 0x52 0x44 0x43 0x48 0xff 0x03 0x01 0x03 0xC1

EX: From input 4 to output 1

0x0c 0x4d 0x41 0x52 0x44 0x43 0x48 0xff 0x03 0x01 0x04 0xC2

EX: From input 1 to output 2

0x0c 0x4d 0x41 0x52 0x44 0x43 0x48 0xff 0x03 0x02 0x01 0xC0

EX: From input 2 to output 2

0x0c 0x4d 0x41 0x52 0x44 0x43 0x48 0xff 0x03 0x02 0x02 0xC1

EX: From input 3 to output 2

0x0c 0x4d 0x41 0x52 0x44 0x43 0x48 0xff 0x03 0x02 0x03 0xC2

EX: From input 4 to output 2

0x0c 0x4d 0x41 0x52 0x44 0x43 0x48 0xff 0x03 0x02 0x04 0xC3

EX: From input 1 to output 3

0x0c 0x4d 0x41 0x52 0x44 0x43 0x48 0xff 0x03 0x03 0x01 0xC1

EX: From input 2 to output 3

0x0c 0x4d 0x41 0x52 0x44 0x43 0x48 0xff 0x03 0x03 0x02 0xC2

EX: From input 3 to output 3

0x0c 0x4d 0x41 0x52 0x44 0x43 0x48 0xff 0x03 0x03 0x03 0xC3

EX: From input 4 to output 3

0x0c 0x4d 0x41 0x52 0x44 0x43 0x48 0xff 0x03 0x03 0x04 0xC4

EX: From input 1 to output 4

0x0c 0x4d 0x41 0x52 0x44 0x43 0x48 0xff 0x03 0x04 0x01 0xC2

EX: From input 2 to output 4

0x0c 0x4d 0x41 0x52 0x44 0x43 0x48 0xff 0x03 0x04 0x02 0xC3

EX: From input 3 to output 4

0x0c 0x4d 0x41 0x52 0x44 0x43 0x48 0xff 0x03 0x04 0x03 0xC4

EX: From input 4 to output 4

0x0c 0x4d 0x41 0x52 0x44 0x43 0x48 0xff 0x03 0x04 0x04 0xC5

5. Get Firmware Version

0x0b 0x4d 0x41 0x52 0x44 0x43 0x48 0xff 0x05 0x01 0xbf

6. Read EDID from output port

0x0b 0x4d 0x41 0x52 0x44 0x43 0x48 0xff 0x0a pX Checksum

pX: Port Number 1 to 4

Echo:

Read Ok: 0xaa + 256 byte Hex Value

Read Fail: 0x55

7. Read EDID from input port

0x0b 0x4d 0x41 0x52 0x44 0x43 0x48 0xff 0x0b pX Checksum

pX: Port Number 1 to 4

Echo:

Read Ok: 0xaa + 256 byte Hex Value

Read Fail: 0x55

8. EDID Learning from Cm2 to Cm3

0x0d 0x4d 0x41 0x52 0x44 0x43 0x48 0xff 0x0c Cm1 Cm2 Cm3 Checksum

Cm1:

0x06: Read default EDID and Write to input port (source)

0x03: Read output port EDID and Write to input port (source)

Cm2: Output Port 1 to 4; Default EDID 1 to 17

Cm3: Input Port 1 to 4 or 0xf1 (all input port)

9. Factory Reset

0x0a 0x4d 0x41 0x52 0x44 0x43 0x48 0xff 0x20 0xd8

10. Read Network Information

0x0a 0x4d 0x41 0x52 0x44 0x43 0x48 0xff 0x31 0xe9

Echo:

0xaa 0x16 IP (4 byte) Mask (4 byte) Gateway (4 byte) DNS1 (4 byte) DNS2 (4 byte) Checksum