
HDMI Matrix over Cat6

RS232 Protocol
HDTVAMHM808 &
HDTVHM404

Version: 1.1

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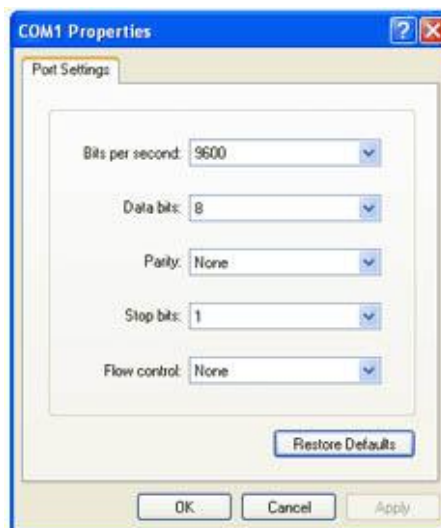
E.g.: AM-HM404

I. Introduction

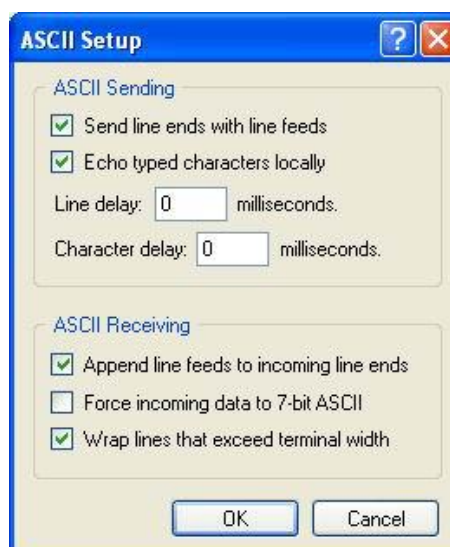
RS232 protocol permits HDMI Matrix over cat6 controlled by main control equipment, achieve following functions: switching, lock/unlock, sleep/wakeup.

II. Structure description

Through DB-9 to RJ-45 of RS232 cord, connect main control equipment with HDTVAMH0808 & HDTVAMHM404. Following is the configuration for main control equipment: baud rate: 9600;Data bit:8;parity check: None; Stop bit:1; Data flow control: None.



Properties→Setting→ASCII Setup:



III. Communication format

Communication format as following: Start symbol + control command + User's address + stopping symbol, Start from IFB;

Control Command as below:

ST: Start
SL: Sleep
RS: Reset
EF: Lock
EE: Unlock
F1: Switch to source1
F2: Switch to source2
F3: Switch to source3
F4: Switch to source4
GV: Get end user's video source
GA: Get end user's status

User's address as below:

00: user 1
01: user 2
02: user 3
04: user 4

Stopping symbol: "P".

Note:

1. The user's address must be "00" when main control equipment executing control commands such as: start, sleep, restart, and so on'
2. When main control equipment, executing "SL" command, AM-HM404 will be in sleep, wakeup command is "ST";
3. After main control equipment executing "GV", HDMI Matrix will feedback user's currently showing source's code. The feedback's code form is "0~3", the relevant input port is "1~4";
4. When main control equipment executing "GA" command, HDMI Matrix will feedback following status of each user:

Status	Feedback code
Share	0
Been Locked	1
Locked	2

IV. Pinout

The pinout RJ45 connectors for RS232

RJ45	RS232	Note
3	2	Receive data
6	3	Transmit data
4	5	Signal ground
5	5	Signal ground
Other	Other	NG

V. Examples

1. If sent command "IFBF101P", HDTVAMHM404 will switch user 2's currently program to source 1;
2. If sent command "IFBSL00P", HDTVAMHM404 will be into sleep;
3. If sent command "IFBGV00P", HDTVAMHM404 will feedback now what is user 1 watching's source code;
4. If sent "IFBGA00P", HDTVAMHM404 will feedback user1's status.