UART or IR Application Program Interface
for XFa DTV module

This document is designed as UART or IR Application Program Interface for XFa DTV module menu control applications.

Revision: V1.00

Remote(IR) interface control

1、NO TOUCH PANEL REMOTE (Remote Controler)

Custom Code： 0xFF00

Data Format： 0x00 + 0xFF + command code + Anti-code

Command Detail: 1 Byte command code (Table 1).

2、IR Interface For X/Y Coordinate(For Touch Panel UI and NEC format)

Custom Code :0xaa55

Data Code :High 8 bits is X coordinate, Low 8 bits is Y coordinate.

Data Format：0x55 + 0xaa + X coordinate + Y coordinate

Note:

   The full screen x/y coordinate range is 0~ 255 ;The screen left top corner coordinate is (0,0).

UART Interface Control

Baud Rate: 115200/38400/19200/9600bps.

Data Format: 1 Start bit

8 Data bits

1 Stop bit

1、UART command format

Data Format:

0x01 + 0x88 + 0x00 + 0x01 + data + 0x03 + 0x00 + 0x00

Data Detail: 1 Byte command code (Table 1).

2、UART Interface for X/Y Coordinate (For Touch Panel UI)

Touch Panel location(X-Y) input. The following will be command code.

Data Format:

0x01 + 0x88 + 0x02 + 0x02 + Byte1 + Byte2 + 0x03 + 0x00 + 0x00

Data detail:

Byte1 = Touch Location X;

Byte2 = Touch Location Y;

Note:

The full screen X/Y coordinate range is 0~ 255 ;The screen left top corner coordinate is (0,0).

Table 1 STB-01

command code (hex)	Function
0x17	MENU
0x10	▲
0x14	▼
0x11	◄
0x13	►
0x16	OK
0x12	Exit
0x19	Auto Scan
0x15	Sub
0x0d	EPG
0x0b	Channel List
0x4d	Audio
0x01	MUTE
0x0e	0
0x02	1
0x03	2
0x04	3
0x05	4
0x06	5
0x07	6
0x08	7
0x09	8
0x0a	9
0x00	Power

Function brief description:

Menu： Menu

EXIT: Exit Menu

UP: Channel up or Up

DOWN: Channel Down or Down

LEFT: Volume down or Left

RIGHT: Volume up or Right

OK/LIST: Menu OK or Channel List(Option)

SUB: Caption on/off

MUTE: Mute On/Off

Audio: Left/Right/Stero switch

EPG: EPG function

LIST: Channel List

0~9: Number key for LCN