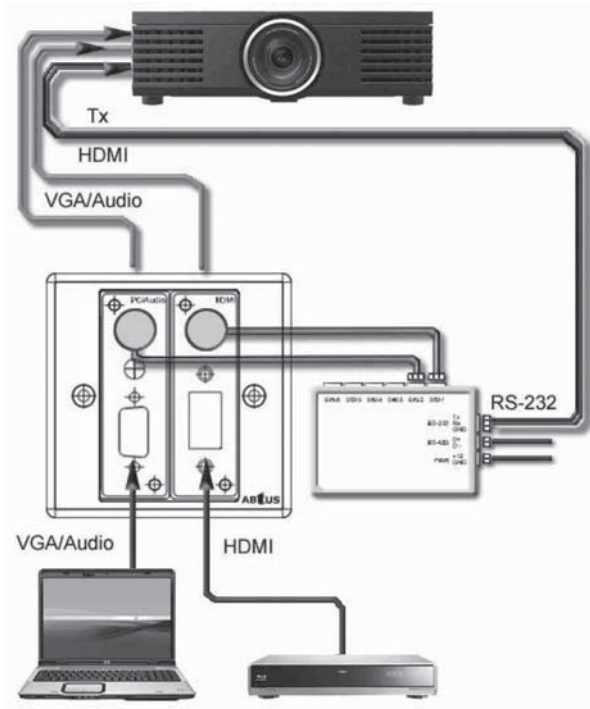


9. In windows where the ASCII or Hex command code can be entered, system will auto calculate the number "Bytes" and displayed accordingly. Baud Rate windows also allow changes and displays the parameter setting of the relevant buttons.
10. In windows where the ASCII or Hex command code can be entered for the "Second Layer Command", system will auto calculate the number "Bytes" and displayed accordingly. Baud Rate windows also allow changes and displays the parameter setting of the relevance button.
 * Second command is send by "Press and Hold" the selected button for 3 sec.
 * "Delay Time" in both 9 and 10 set the time delay before the command send
11. "Feedback and Links" Function NOT applicable for IFP-600C control module
12. "ASCII" & "Hex" check box, allows system to switch and display between ASCII and Hex for the command code entered.
13. "Save" or "Cancel": to Save or Cancel the setup done for the selected button.

*All above command code parameter allows for each button are as follow:

Max code length: 31 byte
Baud Rate: 2400 to 115200
Party bit: None, Even or odd
Stop bit: 1

Standard System Line drawing:



IFP Modular Interface Panel



Model: IFP-600 Series

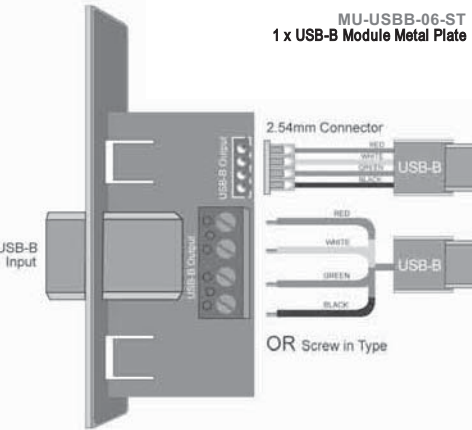
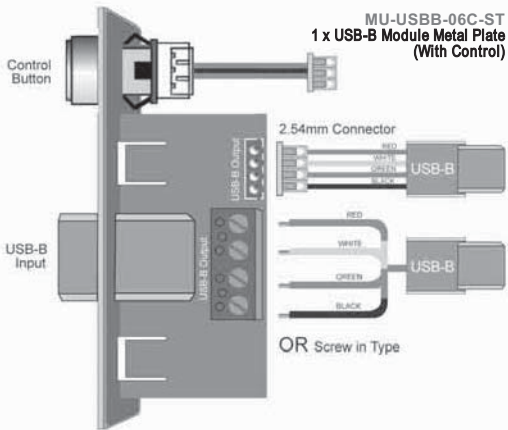
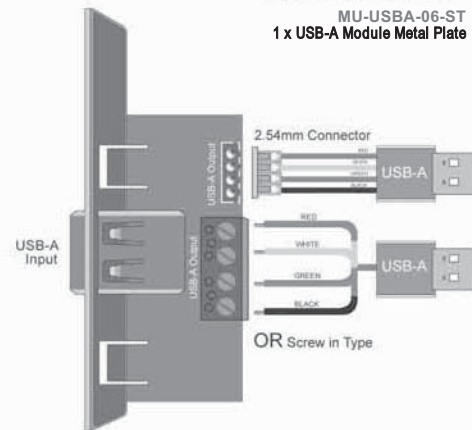
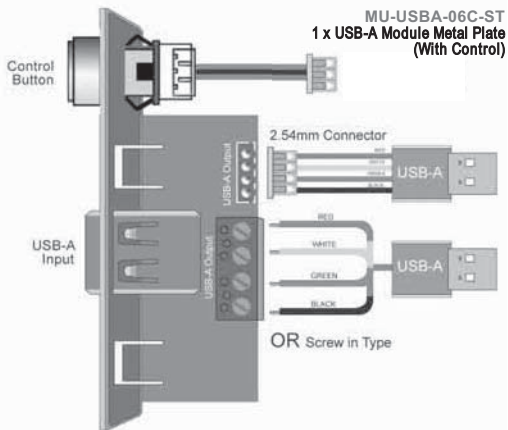
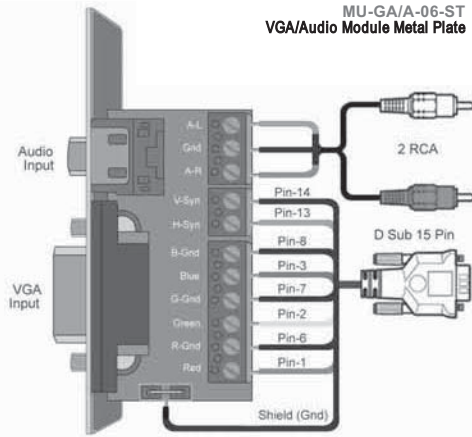
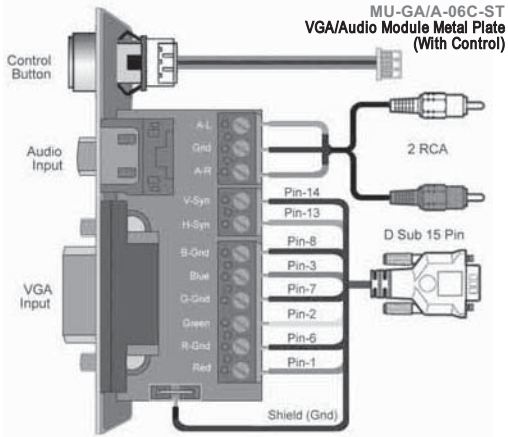
PRODUCT DESCRIPTION

The **IFP-600 series** of modular interface panel comes in both UK (86mm x 86mm) and US (70mm x 114mm) single and double gang sizes that could hold 1, 2 or 4 modules per plate respectively. ABtUS also offers a wide selection of modules for added flexibility. From the common video signal I/Os of VGA, HDMI and display port, USB interactivity connections, power sockets to modular amplifiers, users and installers are sure to be able to create a solution that meets their specific needs.

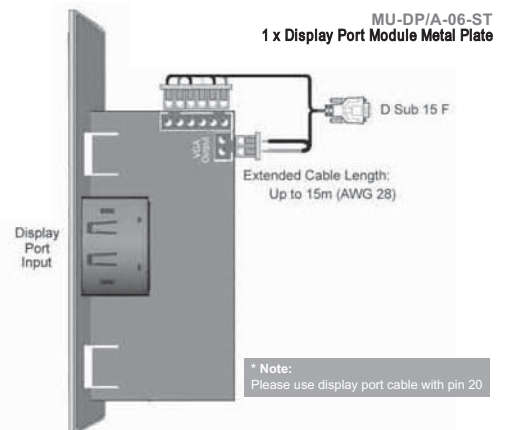
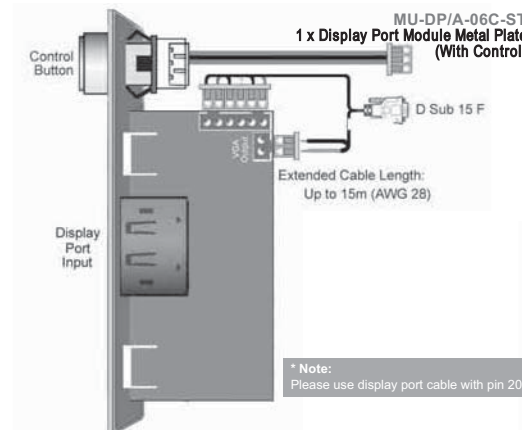
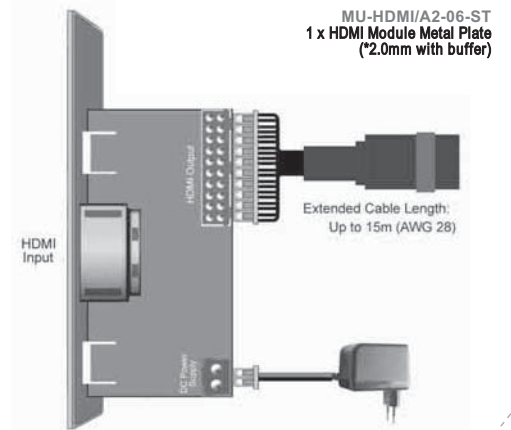
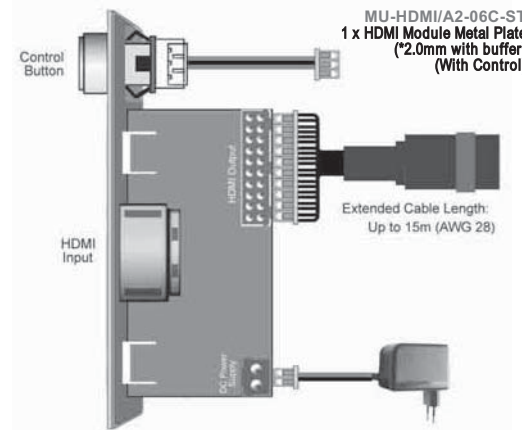
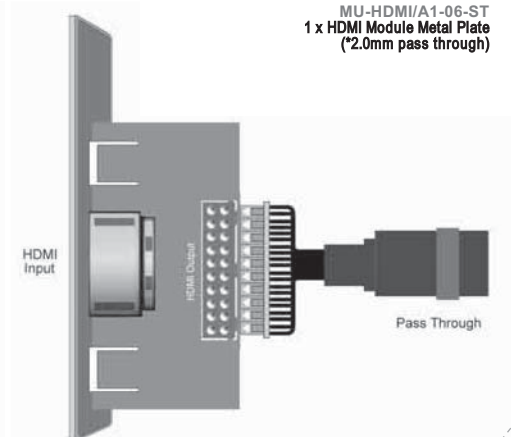
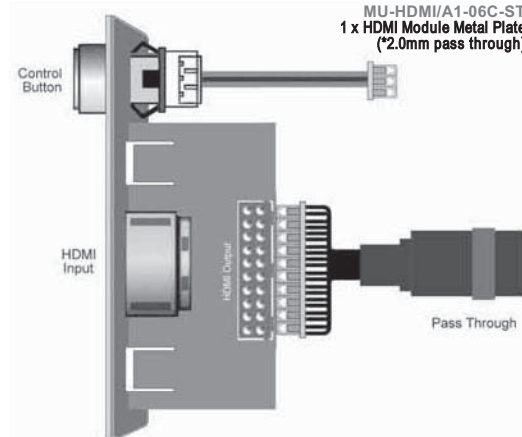
FEATURES

- Customizable Modules for added flexibility
- Integrated with individual control button for convenient one touch switching & controls
- Simple Plug & Play
- Available in Single & Double Gang

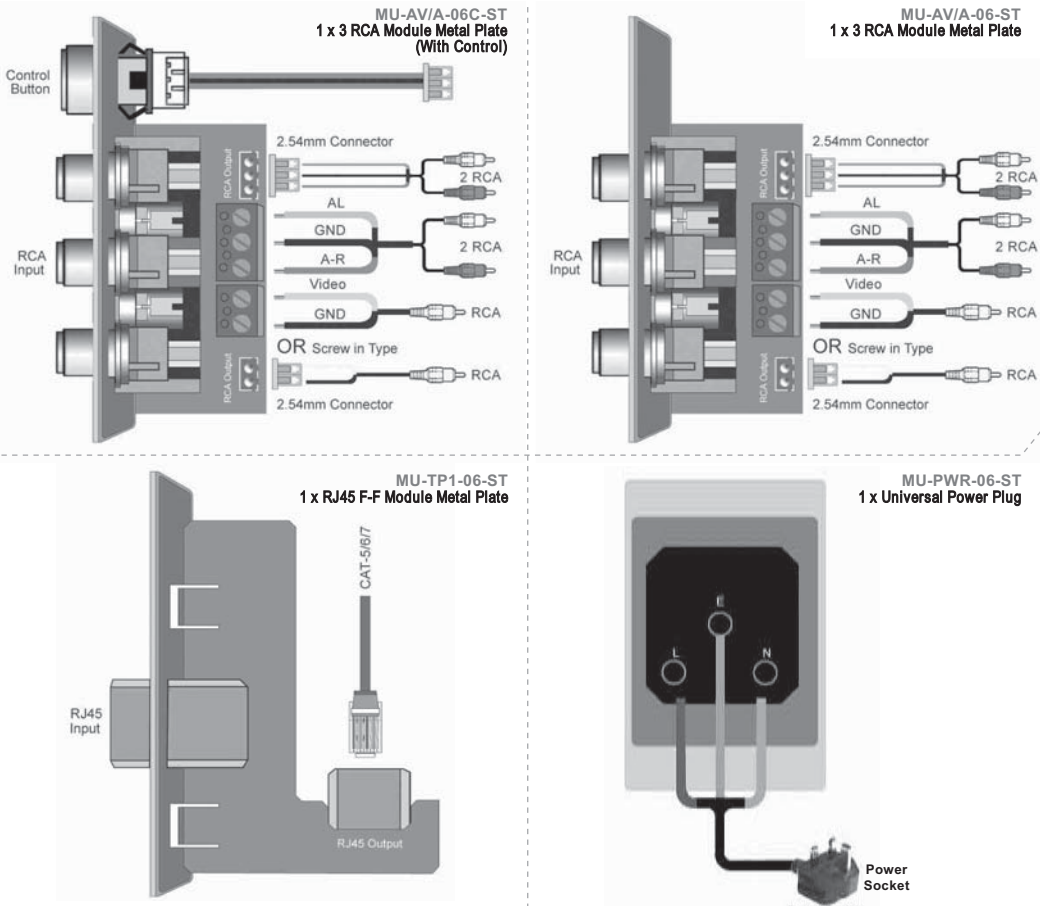
VARIOUS MODULES WITH CONTROL / WITHOUT CONTROL



VARIOUS MODULES WITH CONTROL / WITHOUT CONTROL



VARIOUS MODULES WITH CONTROL / WITHOUT CONTROL



IFP Controller Module & Application Software (Programming)

FEATURES:

- Various I/O modules with RS-232/485 control
- A simple “one button” control (to Turn ON and switch to the relevant input at projector/flat panel)
- **Operation:**
 - **Press once:** Turn ON projector/display panel and set projector/display panel to its relevant Input
 - **Press once:** Press and hold for 3sec to Turn Off Projector/display panel
- **Com port:** User programmable control Com-port
- **Flexible screw on modules** – removable module which can be customized and form any combination of I/O with MU-600/C series modules.
- **Wall Plate Size** – 1G E/UK (c/w 1 module or 2 module slots), 2G E/UK (c/w 4 modules slot)
- **Other Available Versions** – USA 1G, and Australia 1G (fits 2 modules)

Standard setup Communication Parameter between control module and PC:

- Baud Rate: 9600, Data Bit: 8, Parity Bit: Non and Stop Bit: 1
 - Code available for each button: 1+4 virtual with delay in macro links
 - Basic commands : “Power ON”, “Input Select” and “Power OFF”
 - Virtual buttons available (4) with every 1 physical button (*With delayed Macro settings)

Programmable Parameter (*RS-232/RS-485 output)

- Baud Rate: 2400 to 115200
- Data Bit: 8
- Parity Bit: Non, Even or Odd
- Stop Bit: 1
- Max data code length: 31 byte

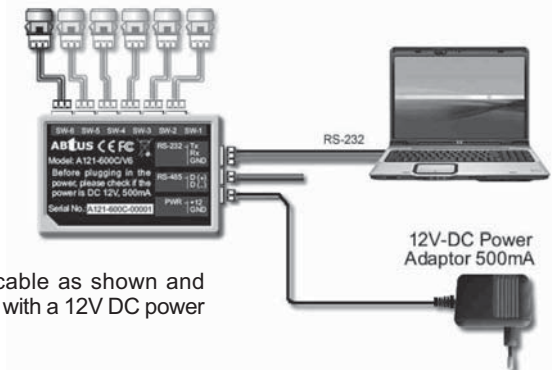
Entering “Programming Mode”

- Connect up the Control module with a RS-232 link cable.
- Open the Application Software, go to “Setting” and select the relevant com port.
- “Blinking” LED Button indicates that the module is in “programming mode”
- To leave “programming mode”, close the application software

Delay Time “Macro Setting”

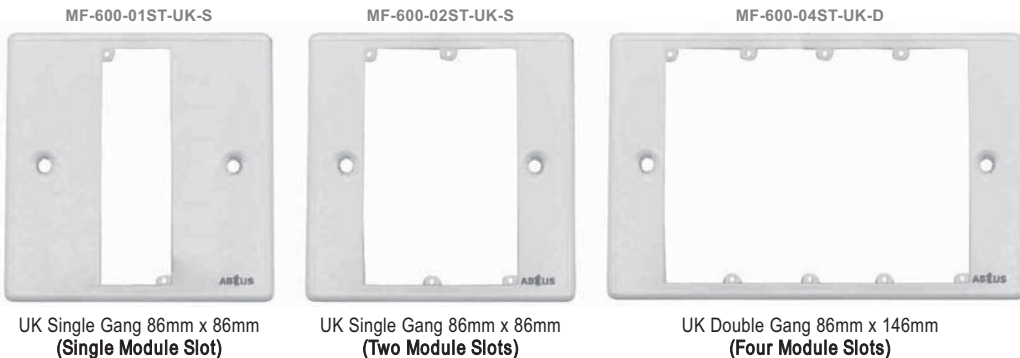
- 1sec to 60 sec

Standard Setup for Programming of Control Module with PC and Application software:



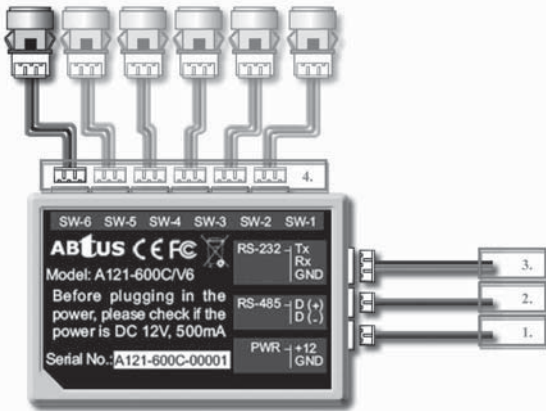
Connect RS-232 links cable as shown and power the control module with a 12V DC power supply provided.

Metal Frame for IFP-600



** For detail, updated Command Code and Application Software, please visit and download from www.abtussingapore.com

Layout of 6 port Control Model:



The external control module is a small programmable control module with the following specifications:

I/O:

1. **Power Supply:** 1x2pin for Power supply
2. **RS-485 :** 1x2pin for RS-485 (D-,D+)
3. **RS-232:** 1x3pin for RS-232 (Rx,Tx,Gnd)
*Programming port
4. **Button:** 6 sets of I/O connections for button switch/LED indicator
3 X wires per set
 - a. Push button Switch
 - b. Common Gnd
 - c. LED indicator

Application Programming Software: Layout Overview:

RS-232 Parameter settings for the links between PC and Control

Load: Loading Program "from" or "to" device

Command Parameter for the selected "Button"

Setup Delay timings from 1 to 60sec

Allow "Data" to be displayed in either ASCII or Hex format

Parameter setup for 2nd Layer command

Setup Delay timings from 1 to 60sec

Right Click to edit: Data, Button Name and Baud Rate

Links buttons with time delay

Command input for the selected "Button" max 31 Bytes

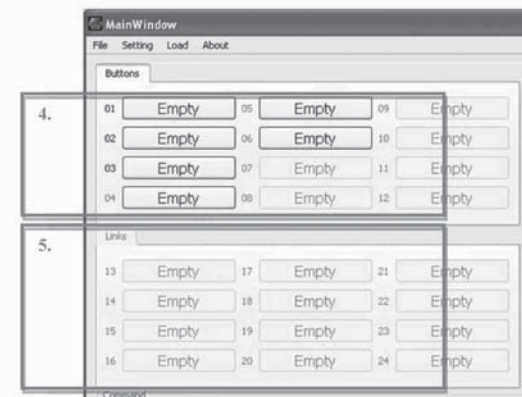
Check for 2nd Layer command "Press and Hold"

2nd layer Command input for the selected "Button"

OK to "save" or "cancel" the button setup



1. **File:**
 - a. "New": Open a New Project/Program
 - b. "Open": Open a previously saved Project/Program
 - c. "Save": Save a Project/Program
 - d. "Save As": Save a Project/Program in a different file name
 - e. "Close": Terminate Application software
 - f. "Load Device": Select a of Device from a "Drop List" (future development)



2. **Setting:**
 - a. Com Port "Setting"
 - i. Base on PC Com port 1, 2 or 3 and the RS-232 Parameters between PC & Programming Device
 - ii. Default Communication Parameter: 9600, 8 N 1

3. **Load:**
 - a. Load "program" to Device
Upload of program to device
 - b. Load "program" from Device
Download program from device

4. **Physical Button selection window:**
button 1 to 6 will be enabled

5. **Virtual link buttons 13 to 16 for each of "Button" 1 to 6**

7. Change Button Name

8. Baud Rate

9. Change Button Name

10. Change Data

11. Change Baud Rate

12. ASCII Hex

13. OK Cancel

6. Right Click on button (1~6) to change "Button Name", "Button Data" and "Baud rate" of the button selected.

Pop-up Window allow changes to be made on the respective button "name" "command in hex or ASCII code" and its "Baud rate setting"

7. Pop-up Window for "Change Button name"

8. Pop-up Window for "Change Baud Rate". Allows Communication Setting for each button to be changed accordingly. Independent Baud Rates are allowed for each and every button.

TO BE CONTINUOUSLY.....