

[ControlLabs] software - BLUARC Module

Help File



23.04.24

[ControlLabs] software by

BPAV Technology Group Ltd

1 Ernest house, 22 James Road,

Basingstoke, United Kingdom RG216BB

Compatibility

This module was developed and tested with CP3 running Firmware V1.501.2867.24563, and CP4 running Firmware V

Prerequisites

1. The module must be connected to TX and RX of TCP/IP Client or COM Port.
2. It is recommended to initialize the module using the connection feedback from TCP/IP or after program starts when using COM.

Connecting to the Device

Default Port for TCP/IP is Telnet (23d).

Default Baud rate for COM is 57600.

Add only the SIMPL module named BLUARC Driver. Do NOT add the SIMPL+ module to your program.

Inputs:

Name	Type	Value	Description
From_Device	Serial		RX Connection for the Module.
Init_Device	Digital		Pulse to initialize the Module to receive initial feedback.
Get_UpTime	Digital		Pulse to request device operation up time.
Get_Temp	Digital		Pulse to request device current temperature.
Display_Aux_Vol	Digital		Pulse to set device to display AUX (L/R) volume.
Display_BT_Vol	Digital		Pulse to set device to display BT (Bluetooth) volume.
PowerOn	Digital		Pulse to set device Power ON.
PowerOff	Digital		Pulse to set device Power OFF.
Reboot	Digital		Pulse to reboot device.
TrigOn	Digital		Pulse to set device Trigger to ON.
TrigOff	Digital		Pulse to set device Trigger to OFF.
Get_Trig	Digital		Pulse to request current Trigger status.
Input_Select_Aux	Digital		Pulse to send AUX(L/R) audio to HDMI Outputs.
Input_Select_Optical	Digital		Pulse to send Optical audio to HDMI Outputs.
Input_Select_HDMI	Digital		Pulse to send HDMI audio to HDMI Outputs.
Input_Select_ARC	Digital		Pulse to send ARC audio to HDMI Outputs.
Input_Select_BT	Digital		Pulse to send Bluetooth audio to HDMI Outputs.
All_HDMI_On	Digital		Pulse to enable both HDMI Outputs.
All_HDMI_Off	Digital		Pulse to disable both HDMI Outputs.
HDMI1_On	Digital		Pulse to enable HDMI Output 1.
HDMI1_Off	Digital		Pulse to disable HDMI Output 1.

HDMI2_On	Digital		Pulse to enable HDMI Output 2.
HDMI2_Off	Digital		Pulse to disable HDMI Output 2.
All_Out_Vol+	Digital		Pulse to increase both volume outputs by 1.
All_Out_Vol-	Digital		Pulse to decrease both volume outputs by 1.
All_Out_Vol_Set	Analog	0d to 100d	Set volume for both outputs.
All_Out_Vol_MuteOn	Digital		Pulse to mute both volume outputs.
All_Out_Vol_MuteOff	Digital		Pulse to unmute both volume outputs.
Aux_Out_Vol+	Digital		Pulse to increase AUX(L/R) volume output by 1.
Aux_Out_Vol-	Digital		Pulse to decrease AUX(L/R) volume output by 1.
Aux_Out_Vol_Set	Analog	0d to 100d	Set volume for AUX(L/R) output.
Aux_Out_Vol_MuteOn	Digital		Pulse to mute AUX(L/R) volume output.
Aux_Out_Vol_MuteOff	Digital		Pulse to unmute AUX(L/R) volume output.
BT_Out_Vol+	Digital		Pulse to increase Bluetooth volume output by 1.
BT_Out_Vol-	Digital		Pulse to decrease Bluetooth volume output by 1.
BT_Out_Vol_Set	Analog	0d to 100d	Set volume for Bluetooth output.
BT_Out_Vol_MuteOn	Digital		Pulse to mute Bluetooth volume output.
BT_Out_Vol_MuteOff	Digital		Pulse to unmute Bluetooth volume output.
BT_Mode_Auto	Digital		Pulse to set device Bluetooth mode to Auto.
BT_Mode_TX	Digital		Pulse to set device Bluetooth mode to TX only.
BT_Mode_RX	Digital		Pulse to set device Bluetooth mode to RX only.
BT_Get_RX_List	Digital		Pulse to get device Bluetooth RX paired devices.
BT_Search_For_Devices	Digital		Pulse to set device to Bluetooth TX pairing mode.
BT_Get_TX_List	Digital		Pulse to get device Bluetooth TX paired devices.
BT_RX_Connect	Analog	1d to 8d	Set to connect to a paired Bluetooth RX device.
BT_RX_Disconnect	Analog	1d to 8d	Set to disconnect to a paired Bluetooth RX device.

BT_RX_Delete	Analog	1d to 8d	Set to delete to a paired Bluetooth RX device.
BT_TX_Connect	Analog	1d to 8d	Set to connect to a paired Bluetooth TX device.
BT_TX_Disconnect	Analog	1d to 8d	Set to disconnect to a paired Bluetooth TX device.
BT_TX_Delete	Analog	1d to 8d	Set to delete to a paired Bluetooth TX device.
BT_RX_Auto	Digital		Pulse to set Bluetooth RX mode to Auto.
BT_RX_Off	Digital		Pulse to set Bluetooth RX mode to Off.
BT_RX_Manual	Digital		Pulse to set Bluetooth RX mode to Manual.

Outputs:

Name	Type	Value	Description
To_Device	Serial		TX Connection for the Module.
Init_in_Progress	Digital		Remains High while device initializes (~10 seconds).
Firmware_Version	Serial		Populates with device firmware version. Example: V1.1.0
Web_GUI_Version	Serial		Populates with device web GUI version. Example: V1.1.0
BT_Version	Serial		Populates with device Bluetooth version. Example: V1.5.3
BT_Name	Serial		Populates with device Bluetooth version. Example: BLU11ARC
UpTime_FB	Serial		Populates with device up time in: 0000:00:00:00 (days:hours:minutes:seconds)
Temp_FB	Serial		Populates with device temperature in Celsius.
Display_Aux_Vol_FB	Digital		High when device displays AUX (L/R) volume.
Display_BT_Vol_FB	Digital		High when device displays BT (Bluetooth) volume.

PowerOn_FB	Digital		High when device is Powered ON.
PowerOff_FB	Digital		High when device is Powered OFF.
TrigOn_FB	Digital		High when device Trigger is ON.
TrigOff_FB	Digital		High when device Trigger is OFF.
Input_Aux_Selected	Digital		High when HDMI Outputs are playing AUX(L/R) audio.
Input_Optical_Selected	Digital		High when HDMI Outputs are playing Optical audio.
Input_HDMI_Selected	Digital		High when HDMI Outputs are playing HDMI audio.
Input_ARC_Selected	Digital		High when HDMI Outputs are playing ARC audio.
Input_BT_Selected	Digital		High when HDMI Outputs are playing Bluetooth audio.
All_HDMI_On_FB	Digital		High when both HDMI Outputs are enabled.
All_HDMI_Off_FB	Digital		High when both HDMI Outputs are disabled.
HDMI1_On_FB	Digital		High when HDMI Output 1 is enabled.
HDMI1_Off_FB	Digital		High when HDMI Output 1 is disabled.
HDMI2_On_FB	Digital		High when HDMI Output 2 is enabled.
HDMI2_Off_FB	Digital		High when HDMI Output 2 is disabled.
Aux_Out_Vol_FB	Analog	0d to 100d	Volume feedback for AUX(L/R) output.
Aux_Out_Vol_MuteOn_FB	Digital		High when AUX(L/R) volume output is muted.
Aux_Out_Vol_MuteOff_FB	Digital		High when AUX(L/R) volume output is unmuted.
BT_Out_Vol_FB	Analog	0d to 100d	Volume feedback for Bluetooth output.
BT_Out_Vol_MuteOn_FB	Digital		High when Bluetooth volume output is muted.
BT_Out_Vol_MuteOff_FB	Digital		High when Bluetooth volume output is unmuted.
BT_Mode_Auto	Digital		High when device Bluetooth mode is set to Auto.
BT_Mode_TX	Digital		High when device Bluetooth mode is set to TX only.
BT_Mode_RX	Digital		High when device Bluetooth mode is set to RX only.
BT_RX_List	Serial		Populates with device Bluetooth paired RX devices list:

			Each line starts with a number (1-8) contains the name of the device and connected/disconnected status and ends with Line Feed (\x0D\x0A)
BT_TX_List	Serial		Populates with device Bluetooth paired TX devices list: Each line starts with a number (1-8) contains the name of the device and connected/disconnected status and ends with Line Feed (\x0D\x0A)
BT_RX_Auto_FB	Digital		High when device Bluetooth RX mode is set to Auto.
BT_RX_Off_FB	Digital		High when device Bluetooth RX mode is set to Off.
BT_RX_Manual_FB	Digital		High when device Bluetooth RX mode is set to Manual.