

# Hdmi Matrix 8x8 Switch CN\_A Help

V1.1

## Precautions:

- The matrix switch module is suitable for simplifying the production of the new version of AUM88LH.
- If you have any questions about this module or the help documentation, please contact us.

**Module name: Hdmi Matrix 8x8 Switch CN\_A Driver**

## Module function description:

- Supports functions such as audio switching, input/output gain adjustment, and preset recall/saving.
- Physical interface is Serial or TCP/IP.  
Serial port protocol:    baud rate: 115200(default)      Data bits: 8      Stop bits: 1  
Check bit: 0  
TCP/IP protocol port: 8000

## Test Environment:

<b>OPS USED FOR TESTING:</b>	CP3N: v1.8000.4522.24170
<b>SIMPL WINDOWS USED FOR TESTING:</b>	4.17.03
<b>DEVICE DB USED FOR TESTING:</b>	200.9500.001.00
<b>CRES DB USED FOR TESTING:</b>	206.05.004.00
<b>SYMBOL LIBRARY USED FOR TESTING:</b>	104
<b>SAMPLE PROGRAM:</b>	3-Series: Example.smw

## Parameter Description:

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### Moduleparameterdescription:

- **[Integer param]DebugMode**  
Singal used to set debug mode on or off.
- **[Integer param]Input\_Gain\_Step**  
Signal used to set input gain up or down step value.

- **[Integer param]Output\_Gain\_Step**  
Signal used to set output gain up or down step value.
- **[Integer param]AM\_Input\_Gain\_Step**  
Signal used to set auto mixer input gain up or down step value.

#### **Inputparameterdescription:**

- **[Buffer input]From\_Device**  
Signal used to receive character from the connected device.
- **[Digital input]Power\_On**  
Singal used to turn on the connected device.
- **[Digital input]Power\_Off**  
Singal used to turn off the connected device.
- **[Digital input]System\_Mute\_On**  
Singal used to set system mute on.
- **[Digital input]System\_Mute\_Off**  
Singal used to set system mute off.
- **[Digital input]Reboot**  
Singal used to reset the connected device.
- **[Analog input]Preset\_Save**  
Singal used to save preset.The singal is range from 1~5.
- **[Analog input]Preset\_Recall**  
Singal used to recall preset.The singal is range from 1~5.
- **[Analog input]Preset\_Clear**  
Singal used to clear preset.The singal is range from 1~5.
- **[String input]Preset\_Name[X]**  
Singal used to set preset name.The X is range from 1~5.
- **[Digital input]All\_In\_Lock\_On**  
Singal used to set all inputs lock on.
- **[Digital input]All\_In\_Lock\_Off**  
Singal used to set all inputs lock off.
- **[Digital input]Input\_Lock\_1/2\_On**  
Singal used to set input 1/2 lock on.
- **[Digital input]Input\_Lock\_3/4\_On**  
Singal used to set input 3/4 lock on.
- **[Digital input]Input\_Lock\_5/6\_On**

- Singal used to set input 5/6 lock on.
- **[Digital input]Input\_Lock\_7/8\_On**  
Singal used to set input 7/8 lock on.
  - **[Digital input]Input\_Lock\_1/2\_Off**  
Singal used to set input 1/2 lock off.
  - **[Digital input]Input\_Lock\_3/4\_Off**  
Singal used to set input 3/4 lock on.
  - **[Digital input]Input\_Lock\_5/6\_Off**  
Singal used to set input 5/6 lock off.
  - **[Digital input]Input\_Lock\_7/8\_Off**  
Singal used to set input 7/8 lock off.
  - **[Digital input]All\_Input\_Phpow\_On**  
Singal used to set all inputs phantom power on.
  - **[Digital input]All\_Input\_Phpow\_Off**  
Singal used to set all inputs phantom power off.
  - **[Digital input]Input\_Phpow\_X\_On**  
Singal used to set input X phantom power on.The X is range from 1~8.
  - **[Digital input]Input\_Phpow\_X\_Off**  
Singal used to set input X phantom power on.The X is range from 1~8.
  - **[Digital input]All\_Input\_Invert\_On**  
Singal used to set all inputs invert on.
  - **[Digital input]All\_Input\_Invert\_Off**  
Singal used to set all inputs invert off.
  - **[Digital input]Input\_Invert\_1\_On**  
Singal used to set input 1 invert on.
  - **[Digital input]Input\_Invert\_2\_On**  
Singal used to set input 2 invert on.
  - **[Digital input]Input\_Invert\_3\_On**  
Singal used to set input 3 invert on.
  - **[Digital input]Input\_Invert\_4\_On**  
Singal used to set input 4 invert on.
  - **[Digital input]Input\_Invert\_5\_On**  
Singal used to set input 5 invert on.
  - **[Digital input]Input\_Invert\_6\_On**

- Singal used to set input 6 invert on.
- **[Digital input]Input\_Invert\_7\_On**  
Singal used to set input 7 invert on.
  - **[Digital input]Input\_Invert\_8\_On**  
Singal used to set input 8 invert on.
  - **[Digital input]Input\_Invert\_1\_Off**  
Singal used to set input 1 invert off.
  - **[Digital input]Input\_Invert\_2\_Off**  
Singal used to set input 2 invert off.
  - **[Digital input]Input\_Invert\_3\_Off**  
Singal used to set input 3 invert off.
  - **[Digital input]Input\_Invert\_4\_Off**  
Singal used to set input 4 invert off.
  - **[Digital input]Input\_Invert\_5\_Off**  
Singal used to set input 5 invert off.
  - **[Digital input]Input\_Invert\_6\_Off**  
Singal used to set input 6 invert off.
  - **[Digital input]Input\_Invert\_7\_Off**  
Singal used to set input 7 invert off.
  - **[Digital input]Input\_Invert\_8\_Off**  
Singal used to set input 8 invert off.
  - **[Digital input]All\_Input\_Mute\_On**  
Singal used to set all inputs mute on.
  - **[Digital input]All\_Input\_Mute\_Off**  
Singal used to set all inputs mute off.
  - **[Digital input]Input\_Mute\_1\_On**  
Singal used to set input 1 mute on.
  - **[Digital input]Input\_Mute\_2\_On**  
Singal used to set input 2 mute on.
  - **[Digital input]Input\_Mute\_3\_On**  
Singal used to set input 3 mute on.
  - **[Digital input]Input\_Mute\_4\_On**  
Singal used to set input 4 mute on.
  - **[Digital input]Input\_Mute\_5\_On**

- Singal used to set input 5 mute on.
- **[Digital input]Input\_Mute\_6\_On**  
Singal used to set input 6 mute on.
  - **[Digital input]Input\_Mute\_7\_On**  
Singal used to set input 7 mute on.
  - **[Digital input]Input\_Mute\_8\_On**  
Singal used to set input 8 mute on.
  - **[Digital input]Input\_Mute\_GroupA\_On**  
Singal used to set input gruoup a mute on.
  - **[Digital input]Input\_Mute\_GroupB\_On**  
Singal used to set input group b mute on.
  - **[Digital input]Input\_Mute\_1\_Off**  
Singal used to set input 1 mute off.
  - **[Digital input]Input\_Mute\_2\_Off**  
Singal used to set input 2 mute off.
  - **[Digital input]Input\_Mute\_3\_Off**  
Singal used to set input 3 mute off.
  - **[Digital input]Input\_Mute\_4\_Off**  
Singal used to set input 4 mute off.
  - **[Digital input]Input\_Mute\_5\_Off**  
Singal used to set input 5 mute off.
  - **[Digital input]Input\_Mute\_6\_Off**  
Singal used to set input 6 mute off.
  - **[Digital input]Input\_Mute\_7\_Off**  
Singal used to set input 7 mute off.
  - **[Digital input]Input\_Mute\_8\_Off**  
Singal used to set input 8 mute off.
  - **[Digital input]Input\_Mute\_GroupA\_Off**  
Singal used to set input group a mute off.
  - **[Digital input]Input\_Mute\_GroupB\_Off**  
Singal used to set input group b mute off.
  - **[Digital input]All\_Input\_Gain\_Up**  
Singal used to set all inputs gain up.
  - **[Digital input]All\_Input\_Gain\_Down**

- Singal used to set all inputs gain down.
- **[Digital input]Input\_Gain\_1\_Up**  
Singal used to set input 1 gain up.
  - **[Digital input]Input\_Gain\_2\_Up**  
Singal used to set input 2 gain up.
  - **[Digital input]Input\_Gain\_3\_Up**  
Singal used to set input 3 gain up.
  - **[Digital input]Input\_Gain\_4\_Up**  
Singal used to set input 4 gain up.
  - **[Digital input]Input\_Gain\_5\_Up**  
Singal used to set input 5 gain up.
  - **[Digital input]Input\_Gain\_6\_Up**  
Singal used to set input 6 gain up.
  - **[Digital input]Input\_Gain\_7\_Up**  
Singal used to set input 7 gain up.
  - **[Digital input]Input\_Gain\_8\_Up**  
Singal used to set input 8 gain up.
  - **[Digital input]Input\_Gain\_GroupA\_Up**  
Singal used to set input group a gain up.
  - **[Digital input]Input\_Gain\_GroupB\_Up**  
Singal used to set input group b gain up.
  - **[Digital input]Input\_Gain\_1\_Down**  
Singal used to set input 1 gain down.
  - **[Digital input]Input\_Gain\_2\_Down**  
Singal used to set input 2 gain down.
  - **[Digital input]Input\_Gain\_3\_Down**  
Singal used to set input 3 gain down.
  - **[Digital input]Input\_Gain\_4\_Down**  
Singal used to set input 4 gain down.
  - **[Digital input]Input\_Gain\_5\_Down**  
Singal used to set input 5 gain down.
  - **[Digital input]Input\_Gain\_6\_Down**  
Singal used to set input 6 gain down.
  - **[Digital input]Input\_Gain\_7\_Down**

- Singal used to set input 7 gain down.
- **[Digital input]Input\_Gain\_8\_Down**  
Singal used to set input 8 gain down.
  - **[Digital input]Input\_Gain\_GroupA\_Down**  
Singal used to set input group a gain down.
  - **[Digital input]Input\_Gain\_GroupB\_Down**  
Singal used to set input group b gain down.
  - **[Analog input]All\_Input\_Gain**  
Singal used to set all inputs gain.The singal range from -100db~12db.
  - **[Analog input]Input\_1\_Gain**  
Singal used to set input 1 gain.The singal range from -100db~12db.
  - **[Analog input]Input\_2\_Gain**  
Singal used to set input 2 gain.The singal range from -100db~12db.
  - **[Analog input]Input\_3\_Gain**  
Singal used to set input 3 gain.The singal range from -100db~12db.
  - **[Analog input]Input\_4\_Gain**  
Singal used to set input 4 gain.The singal range from -100db~12db.
  - **[Analog input]Input\_5\_Gain**  
Singal used to set input 5 gain.The singal range from -100db~12db.
  - **[Analog input]Input\_6\_Gain**  
Singal used to set input 6 gain.The singal range from -100db~12db.
  - **[Analog input]Input\_7\_Gain**  
Singal used to set input 7 gain.The singal range from -100db~12db.
  - **[Analog input]Input\_8\_Gain**  
Singal used to set input 8 gain.The singal range from -100db~12db.
  - **[Analog input]Input\_GroupA\_Gain**  
Singal used to set input group a gain.The singal range from -100db~12db.
  - **[Analog input]Input\_GroupB\_Gain**  
Singal used to set input group b gain.The singal range from -100db~12db.
  - **[Analog input]All\_Input\_Level**  
Singal used to set all inputs level.The singal range from 1~9.
  - **[Analog input]Input\_X\_Level**  
Singal used to set input 1 level.The singal range from 1~9.The X is range from 1~8.
  - **[Digital input]All\_Output\_Lock\_On**

- Singal used to set all outputs lock on.
- **[Digital input]All\_Output\_Lock\_Off**  
Singal used to set all outputs lock off.
  - **[Digital input]Input\_Lock\_1/2\_On**  
Singal used to set output 1/2 lock on.
  - **[Digital input]Output\_Lock\_3/4\_On**  
Singal used to set output 3/4 lock on.
  - **[Digital input]Output\_Lock\_5/6\_On**  
Singal used to set output 5/6 lock on.
  - **[Digital input]Output\_Lock\_7/8\_On**  
Singal used to set output 7/8 lock on.
  - **[Digital input]Output\_Lock\_1/2\_Off**  
Singal used to set output 1/2 lock off.
  - **[Digital input]Output\_Lock\_3/4\_Off**  
Singal used to set output 3/4 lock on.
  - **[Digital input]Output\_Lock\_5/6\_Off**  
Singal used to set output 5/6 lock off.
  - **[Digital input]Output\_Lock\_7/8\_Off**  
Singal used to set output 7/8 lock off.
  - **[Digital input]All\_Output\_Invert\_On**  
Singal used to set all inputs invert on.
  - **[Digital input]All\_Output\_Invert\_Off**  
Singal used to set all outputs invert off.
  - **[Digital input]Output\_Invert\_1\_On**  
Singal used to set output 1 invert on.
  - **[Digital input]Output\_Invert\_2\_On**  
Singal used to set output 2 invert on.
  - **[Digital input]Output\_Invert\_3\_On**  
Singal used to set output 3 invert on.
  - **[Digital input]Output\_Invert\_4\_On**  
Singal used to set output 4 invert on.
  - **[Digital input]Output\_Invert\_5\_On**  
Singal used to set output 5 invert on.
  - **[Digital input]Output\_Invert\_6\_On**



- Singal used to set output 6 invert on.
- **[Digital input]Output\_Invert\_7\_On**  
Singal used to set output 7 invert on.
  - **[Digital input]Output\_Invert\_8\_On**  
Singal used to set output 8 invert on.
  - **[Digital input]Output\_Invert\_1\_Off**  
Singal used to set output 1 invert off.
  - **[Digital input]Output\_Invert\_2\_Off**  
Singal used to set output 2 invert off.
  - **[Digital input]Output\_Invert\_3\_Off**  
Singal used to set output 3 invert off.
  - **[Digital input]Output\_Invert\_4\_Off**  
Singal used to set output 4 invert off.
  - **[Digital input]Output\_Invert\_5\_Off**  
Singal used to set output 5 invert off.
  - **[Digital input]Output\_Invert\_6\_Off**  
Singal used to set output 6 invert off.
  - **[Digital input]Output\_Invert\_7\_Off**  
Singal used to set output 7 invert off.
  - **[Digital input]Output\_Invert\_8\_Off**  
Singal used to set output 8 invert off.
  - **[Digital input]All\_Output\_Mute\_On**  
Singal used to set all outputs mute on.
  - **[Digital input]All\_Output\_Mute\_Off**  
Singal used to set all outputs mute off.
  - **[Digital input]Output\_Mute\_1\_On**  
Singal used to set output 1 mute on.
  - **[Digital input]Output\_Mute\_2\_On**  
Singal used to set output 2 mute on.
  - **[Digital input]Output\_Mute\_3\_On**  
Singal used to set output 3 mute on.
  - **[Digital input]Output\_Mute\_4\_On**  
Singal used to set output 4 mute on.
  - **[Digital input]Output\_Mute\_5\_On**

- Singal used to set output 5 mute on.
- **[Digital input]Output\_Mute\_6\_On**  
Singal used to set output 6 mute on.
  - **[Digital input]Output\_Mute\_7\_On**  
Singal used to set output 7 mute on.
  - **[Digital input]Output\_Mute\_8\_On**  
Singal used to set output 8 mute on.
  - **[Digital input]Output\_Mute\_GroupA\_On**  
Singal used to set output gruoup a mute on.
  - **[Digital input]Output\_Mute\_GroupB\_On**  
Singal used to set output group b mute on.
  - **[Digital input]Output\_Mute\_1\_Off**  
Singal used to set output 1 mute off.
  - **[Digital input]Output\_Mute\_2\_Off**  
Singal used to set output 2 mute off.
  - **[Digital input]Output\_Mute\_3\_Off**  
Singal used to set output 3 mute off.
  - **[Digital input]Output\_Mute\_4\_Off**  
Singal used to set output 4 mute off.
  - **[Digital input]Output\_Mute\_5\_Off**  
Singal used to set output 5 mute off.
  - **[Digital input]Output\_Mute\_6\_Off**  
Singal used to set output 6 mute off.
  - **[Digital input]Output\_Mute\_7\_Off**  
Singal used to set output 7 mute off.
  - **[Digital input]Output\_Mute\_8\_Off**  
Singal used to set output 8 mute off.
  - **[Digital input]Output\_Mute\_GroupA\_Off**  
Singal used to set output group a mute off.
  - **[Digital input]Output\_Mute\_GroupB\_Off**  
Singal used to set output group b mute off.
  - **[Digital input]All\_Output\_Gain\_Up**  
Singal used to set all outputs gain up.
  - **[Digital input]All\_Output\_Gain\_Down**

- Singal used to set all outputs gain down.
- **[Digital input]Output\_Gain\_1\_Up**  
Singal used to set output 1 gain up.
  - **[Digital input]Output\_Gain\_2\_Up**  
Singal used to set output 2 gain up.
  - **[Digital input]Output\_Gain\_3\_Up**  
Singal used to set output 3 gain up.
  - **[Digital input]Output\_Gain\_4\_Up**  
Singal used to set output 4 gain up.
  - **[Digital input]Output\_Gain\_5\_Up**  
Singal used to set output 5 gain up.
  - **[Digital input]Output\_Gain\_6\_Up**  
Singal used to set output 6 gain up.
  - **[Digital input]Output\_Gain\_7\_Up**  
Singal used to set output 7 gain up.
  - **[Digital input]Output\_Gain\_8\_Up**  
Singal used to set output 8 gain up.
  - **[Digital input]Output\_Gain\_GroupA\_Up**  
Singal used to set output group a gain up.
  - **[Digital input]Output\_Gain\_GroupB\_Up**  
Singal used to set output group b gain up.
  - **[Digital input]Output\_Gain\_1\_Down**  
Singal used to set output 1 gain down.
  - **[Digital input]Output\_Gain\_2\_Down**  
Singal used to set output 2 gain down.
  - **[Digital input]Output\_Gain\_3\_Down**  
Singal used to set output 3 gain down.
  - **[Digital input]Output\_Gain\_4\_Down**  
Singal used to set output 4 gain down.
  - **[Digital input]Output\_Gain\_5\_Down**  
Singal used to set output 5 gain down.
  - **[Digital input]Output\_Gain\_6\_Down**  
Singal used to set output 6 gain down.
  - **[Digital input]Output\_Gain\_7\_Down**

- Singal used to set output 7 gain down.
- **[Digital input]Output\_Gain\_8\_Down**  
Singal used to set output 8 gain down.
  - **[Digital input]Output\_Gain\_GroupA\_Down**  
Singal used to set output group a gain down.
  - **[Digital input]Output\_Gain\_GroupB\_Down**  
Singal used to set output group b gain down.
  - **[Analog input]All\_Output\_Gain**  
Singal used to set all outputs gain.The singal range from -100db~12db.
  - **[Analog input]Output\_1\_Gain**  
Singal used to set output 1 gain.The singal range from -100db~12db.
  - **[Analog input]Output\_2\_Gain**  
Singal used to set output 2 gain.The singal range from -100db~12db.
  - **[Analog input]Output\_3\_Gain**  
Singal used to set output 3 gain.The singal range from -100db~12db.
  - **[Analog input]Output\_4\_Gain**  
Singal used to set output 4 gain.The singal range from -100db~12db.
  - **[Analog input]Output\_5\_Gain**  
Singal used to set output 5 gain.The singal range from -100db~12db.
  - **[Analog input]Output\_6\_Gain**  
Singal used to set output 6 gain.The singal range from -100db~12db.
  - **[Analog input]Output\_7\_Gain**  
Singal used to set output 7 gain.The singal range from -100db~12db.
  - **[Analog input]Output\_8\_Gain**  
Singal used to set output 8 gain.The singal range from -100db~12db.
  - **[Analog input]Output\_GroupA\_Gain**  
Singal used to set output group a gain.The singal range from -100db~12db.
  - **[Analog input]Output\_GroupB\_Gain**  
Singal used to set output group b gain.The singal range from -100db~12db.
  - **[Analog input]All\_Output\_Level**  
Singal used to set all outputs level.The singal range from 1~4.
  - **[Analog input]Output\_X\_Level**  
Singal used to set output 1 level.The singal range from 1~4.The X is range from 1~8.
  - **[Digital input]All\_AM\_Input\_Auto\_On**

Singal used to set all auto mixer inputs auto on.

➤ **[Digital input]All\_AM\_Input\_Auto\_Off**

Singal used to set all auto mixer inputs auto off.

➤ **[Digital input]AM\_Input\_Auto\_1\_On**

Singal used to set auto mixer input 1 auto on.

➤ **[Digital input]AM\_Input\_Auto\_2\_On**

Singal used to set auto mixer input 2 auto on.

➤ **[Digital input]AM\_Input\_Auto\_3\_On**

Singal used to set auto mixer input 3 auto on.

➤ **[Digital input]AM\_Input\_Auto\_4\_On**

Singal used to set auto mixer input 4 auto on.

➤ **[Digital input]AM\_Input\_Auto\_5\_On**

Singal used to set auto mixer input 5 auto on.

➤ **[Digital input]AM\_Input\_Auto\_6\_On**

Singal used to set auto mixer input 6 auto on.

➤ **[Digital input]AM\_Input\_Auto\_7\_On**

Singal used to set auto mixer input 7 auto on.

➤ **[Digital input]AM\_Input\_Auto\_8\_On**

Singal used to set auto mixer input 8 auto on.

➤ **[Digital input]AM\_Input\_Auto\_1\_Off**

Singal used to set auto mixer input 1 auto off.

➤ **[Digital input]AM\_Input\_Auto\_2\_Off**

Singal used to set auto mixer input 2 auto off.

➤ **[Digital input]AM\_Input\_Auto\_3\_Off**

Singal used to set auto mixer input 3 auto off.

➤ **[Digital input]AM\_Input\_Auto\_4\_Off**

Singal used to set auto mixer input 4 auto off.

➤ **[Digital input]AM\_Input\_Auto\_5\_Off**

Singal used to set auto mixer input 5 auto off.

➤ **[Digital input]AM\_Input\_Auto\_6\_Off**

Singal used to set auto mixer input 6 auto off.

➤ **[Digital input]AM\_Input\_Auto\_7\_Off**

Singal used to set auto mixer input 7 auto off.

➤ **[Digital input]AM\_Input\_Auto\_8\_Off**

- Singal used to set auto mixer input 8 auto off.
- **[Digital input]All\_Input\_Mute\_On**  
Singal used to set all auto mixer inputs mute on.
  - **[Digital input]All\_Input\_Mute\_Off**  
Singal used to set all auto mixer inputs mute off.
  - **[Digital input]AM\_Input\_Mute\_1\_On**  
Singal used to set auto mixer input 1 mute on.
  - **[Digital input]AM\_Input\_Mute\_2\_On**  
Singal used to set auto mixer input 2 mute on.
  - **[Digital input]AM\_Input\_Mute\_3\_On**  
Singal used to set auto mixer input 3 mute on.
  - **[Digital input]AM\_Input\_Mute\_4\_On**  
Singal used to set auto mixer input 4 mute on.
  - **[Digital input]AM\_Input\_Mute\_5\_On**  
Singal used to set auto mixer input 5 mute on.
  - **[Digital input]AM\_Input\_Mute\_6\_On**  
Singal used to set auto mixer input 6 mute on.
  - **[Digital input]AM\_Input\_Mute\_7\_On**  
Singal used to set auto mixer input 7 mute on.
  - **[Digital input]AM\_Input\_Mute\_8\_On**  
Singal used to set auto mixer input 8 mute on.
  - **[Digital input]AM\_Input\_Mute\_1\_Off**  
Singal used to set auto mixer input 1 mute off.
  - **[Digital input]AM\_Input\_Mute\_2\_Off**  
Singal used to set auto mixer input 2 mute off.
  - **[Digital input]AM\_Input\_Mute\_3\_Off**  
Singal used to set auto mixer input 3 mute off.
  - **[Digital input]AM\_Input\_Mute\_4\_Off**  
Singal used to set auto mixer input 4 mute off.
  - **[Digital input]AM\_Input\_Mute\_5\_Off**  
Singal used to set auto mixer input 5 mute off.
  - **[Digital input]AM\_Input\_Mute\_6\_Off**  
Singal used to set auto mixer input 6 mute off.
  - **[Digital input]AM\_Input\_Mute\_7\_Off**

- Singal used to set auto mixer input 7 mute off.
- **[Digital input]AM\_Input\_Mute\_8\_Off**  
Singal used to set auto mixer input 8 mute off.
  - **[Digital input]All\_AM\_Input\_Gain\_Up**  
Singal used to set all auto mixer inputs gain up.
  - **[Digital input]All\_AM\_Input\_Gain\_Down**  
Singal used to set all auto mixer inputs gain down.
  - **[Digital input]AM\_Input\_Gain\_1\_Up**  
Singal used to set auto mixer input 1 gain up.
  - **[Digital input]AM\_Input\_Gain\_2\_Up**  
Singal used to set auto mixer input 2 gain up.
  - **[Digital input]AM\_Input\_Gain\_3\_Up**  
Singal used to set auto mixer input 3 gain up.
  - **[Digital input]AM\_Input\_Gain\_4\_Up**  
Singal used to set auto mixer input 4 gain up.
  - **[Digital input]AM\_Input\_Gain\_5\_Up**  
Singal used to set auto mixer input 5 gain up.
  - **[Digital input]AM\_Input\_Gain\_6\_Up**  
Singal used to set auto mixer input 6 gain up.
  - **[Digital input]AM\_Input\_Gain\_7\_Up**  
Singal used to set auto mixer input 7 gain up.
  - **[Digital input]AM\_Input\_Gain\_8\_Up**  
Singal used to set auto mixer input 8 gain up.
  - **[Digital input]AM\_Input\_Gain\_9\_Up**  
Singal used to set auto mixer input group a gain up.
  - **[Digital input]AM\_Input\_Gain\_1\_Down**  
Singal used to set auto mixer input 1 gain down.
  - **[Digital input]AM\_Input\_Gain\_2\_Down**  
Singal used to set auto mixer input 2 gain down.
  - **[Digital input]AM\_Input\_Gain\_3\_Down**  
Singal used to set auto mixer input 3 gain down.
  - **[Digital input]AM\_Input\_Gain\_4\_Down**  
Singal used to set auto mixer input 4 gain down.
  - **[Digital input]AM\_Input\_Gain\_5\_Down**

- Singal used to set auto mixer input 5 gain down.
- **[Digital input]AM\_Input\_Gain\_6\_Down**  
Singal used to set auto mixer input 6 gain down.
  - **[Digital input]AM\_Input\_Gain\_7\_Down**  
Singal used to set auto mixer input 7 gain down.
  - **[Digital input]AM\_Input\_Gain\_8\_Down**  
Singal used to set auto mixer input 8 gain down.
  - **[Digital input]AM\_Input\_Gain\_9\_Down**  
Singal used to set auto mixer input group a gain down.
  - **[Analog input]All\_AM\_Input\_Gain**  
Singal used to set all auto mixer inputs gain.The singal range from -100db~12db.
  - **[Analog input]AM\_Input\_1\_Gain**  
Singal used to set auto mixer input 1 gain.The singal range from -100db~12db.
  - **[Analog input]AM\_Input\_2\_Gain**  
Singal used to set auto mixer input 2 gain.The singal range from -100db~12db.
  - **[Analog input]AM\_Input\_3\_Gain**  
Singal used to set auto mixer input 3 gain.The singal range from -100db~12db.
  - **[Analog input]AM\_Input\_4\_Gain**  
Singal used to set auto mixer input 4 gain.The singal range from -100db~12db.
  - **[Analog input]AM\_Input\_5\_Gain**  
Singal used to set auto mixer input 5 gain.The singal range from -100db~12db.
  - **[Analog input]AM\_Input\_6\_Gain**  
Singal used to set auto mixer input 6 gain.The singal range from -100db~12db.
  - **[Analog input]AM\_Input\_7\_Gain**  
Singal used to set auto mixer input 7 gain.The singal range from -100db~12db.
  - **[Analog input]AM\_Input\_8\_Gain**  
Singal used to set auto mixer input 8 gain.The singal range from -100db~12db.
  - **[Analog input]AM\_Input\_9\_Gain**  
Singal used to set auto mixer input group a gain.The singal range from -100db~12db.
  - **[Analog input]All\_AM\_Input\_Priority**  
Singal used to set all inputs level.The singal range from 0~10.
  - **[Analog input]AM\_Input\_1\_Priority**  
Singal used to set auto mixer input 1 priority.The singal range from 0~10.
  - **[Analog input]AM\_Input\_2\_Priority**



- Singal used to set auto mixer input 2 priority.The singal range from 0~10.
- **[Analog input]AM\_Input\_3\_Priority**  
Singal used to set auto mixer input 3 priority.The singal range from 0~10.
  - **[Analog input]AM\_Input\_4\_Priority**  
Singal used to set auto mixer input 4 priority.The singal range from 0~10.
  - **[Analog input]AM\_Input\_5\_Priority**  
Singal used to set auto mixer input 5 priority.The singal range from 0~10.
  - **[Analog input]AM\_Input\_6\_Priority**  
Singal used to set auto mixer input 6 priority.The singal range from 0~10.
  - **[Analog input]AM\_Input\_7\_Priority**  
Singal used to set auto mixer input 7 priority.The singal range from 0~10.
  - **[Analog input]AM\_Input\_8\_Priority**  
Singal used to set auto mixer input 8 priority.The singal range from 0~10.
  - **[Analog input]All\_Output\_From\_Input**  
Singal used to set all outputs from input.The singal range from 1~12.
  - **[Analog input]All\_Output\_Remove\_Input**  
Singal used to set all outputs remove input.The singal range from 1~12.
  - **[Analog input]Output\_1\_From\_Input**  
Singal used to set output 1 from input.The singal range from 1~12.
  - **[Analog input]Output\_1\_Remove\_Input**  
Singal used to set output 1 remove input.The singal range from 1~12.
  - **[Analog input]Output\_2\_From\_Input**  
Singal used to set output 2 from input.The singal range from 1~12.
  - **[Analog input]Output\_2\_Remove\_Input**  
Singal used to set output 2 remove input.The singal range from 1~12.
  - **[Analog input]Output\_3\_From\_Input**  
Singal used to set output 3 from input.The singal range from 1~12.
  - **[Analog input]Output\_3\_Remove\_Input**  
Singal used to set output 3 remove input.The singal range from 1~12.
  - **[Analog input]Output\_4\_From\_Input**  
Singal used to set output 4 from input.The singal range from 1~12.
  - **[Analog input]Output\_4\_Remove\_Input**  
Singal used to set output 4 remove input.The singal range from 1~12.
  - **[Analog input]Output\_5\_From\_Input**

- Singal used to set output 5 from input.The singal range from 1~12.
- **[Analog input]Output\_5\_Remove\_Input**  
Singal used to set output 5 remove input.The singal range from 1~12.
  - **[Analog input]Output\_6\_From\_Input**  
Singal used to set output 6 from input.The singal range from 1~12.
  - **[Analog input]Output\_6\_Remove\_Input**  
Singal used to set output 6 remove input.The singal range from 1~12.
  - **[Analog input]Output\_7\_From\_Input**  
Singal used to set output 7 from input.The singal range from 1~12.
  - **[Analog input]Output\_7\_Remove\_Input**  
Singal used to set output 7 remove input.The singal range from 1~12.
  - **[Analog input]Output\_8\_From\_Input**  
Singal used to set output 8 from input.The singal range from 1~12.
  - **[Analog input]Output\_8\_Remove\_Input**  
Singal used to set output 8 remove input.The singal range from 1~12.

### **Outputparameterdescription:**

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- **[Serial output]To\_Device**  
Signal used to receive character from the connected device.
- **[Digital output]Power\_On\_fb**  
Signal used to indicate that the connected device is Powered On.
- **[Digital output]Power\_Off\_fb**  
Signal used to indicate that the connected device is Powered Off.
- **[Digital input]System\_Mute\_On\_fb**  
Signal used to indicate system mute on.
- **[Digital input]System\_Mute\_Off\_fb**  
Signal used to indicate system mute off.
- **[Digital output]Input\_Lock\_1/2\_On\_fb**  
Signal used to indicate that input 1/2 locked on.
- **[Digital output]Input\_Lock\_3/4\_On\_fb**  
Signal used to indicate that input 3/4 locked on.
- **[Digital output]Input\_Lock\_5/6\_On\_fb**  
Signal used to indicate that input 5/6 locked on.
- **[Digital output]Input\_Lock\_7/8\_On\_fb**

- Singal used to indicate that input 7/8 locked on.
- **[Digital output]Input\_Lock\_1/2\_Off\_fb**  
Singal used to indicate that input 1/2 locked off.
  - **[Digital output]Input\_Lock\_3/4\_Off\_fb**  
Singal used to indicate that input 3/4 locked off.
  - **[Digital output]Input\_Lock\_5/6\_Off\_fb**  
Singal used to indicate that input 5/6 locked off.
  - **[Digital output]Input\_Lock\_7/8\_Off\_fb**  
Singal used to indicate that input 7/8 locked off.
  - **[Digital output]Input\_Phpow\_X\_On\_fb**  
Singal used to indicate that input X phantom powered on.The X range from 1~4.
  - **[Digital output]Input\_Phpow\_X\_Off\_fb**  
Singal used to indicate that input X phantom powered off.The X range from 1~4.
  - **[Digital output]Input\_Invert\_X\_On\_fb**  
Singal used to indicate that input X invert turned on.The X range from 1~8.
  - **[Digital output]Input\_Invert\_X\_Off\_fb**  
Singal used to indicate that input X invert turned off.The X range from 1~8.
  - **[Digital output]Input\_Mute\_X\_On\_fb**  
Singal used to indicate that input X muted on.The X range from 1~8.
  - **[Digital output]Input\_Mute\_GroupA\_On\_fb**  
Singal used to indicate that input group a muted on.
  - **[Digital output]Input\_Mute\_GroupB\_On\_fb**  
Singal used to indicate that input group b muted on.
  - **[Digital output]Input\_Mute\_X\_Off\_fb**  
Singal used to indicate that input X muted off.The X range from 1~8.
  - **[Digital output]Input\_Mute\_GroupA\_Off\_fb**  
Singal used to indicate that input group a muted off.
  - **[Digital output]Input\_Mute\_GroupB\_Off\_fb**  
Singal used to indicate that input group b muted off.
  - **[Analog output]Input\_Gain\_X\_fb**  
Singal used to indicate that input X gain.The X range from 1~8.
  - **[Analog output]Input\_Gain\_GroupA\_fb**  
Singal used to indicate that input group a gain.
  - **[Analog output]Input\_Gain\_GroupB\_fb**

Singal used to indicate that input group b gain.

➤ **[Analog output]Input\_Level\_X\_fb**

Singal used to indicate that input X gain.The X range from 1~4.

➤ **[Digital output]Output\_Lock\_1/2\_On\_fb**

Singal used to indicate that output 1/2 locked on.

➤ **[Digital output]Output\_Lock\_3/4\_On\_fb**

Singal used to indicate that output 3/4 locked on.

➤ **[Digital output]Output\_Lock\_5/6\_On\_fb**

Singal used to indicate that output 5/6 locked on.

➤ **[Digital output]Output\_Lock\_7/8\_On\_fb**

Singal used to indicate that output 7/8 locked on.

➤ **[Digital output]Output\_Lock\_1/2\_Off\_fb**

Singal used to indicate that output 1/2 locked off.

➤ **[Digital output]Output\_Lock\_3/4\_Off\_fb**

Singal used to indicate that output 3/4 locked off.

➤ **[Digital output]Output\_Lock\_5/6\_Off\_fb**

Singal used to indicate that output 5/6 locked off.

➤ **[Digital output]Output\_Lock\_7/8\_Off\_fb**

Singal used to indicate that output 7/8 locked off.

➤ **[Digital output]Output\_Phpow\_X\_On\_fb**

Singal used to indicate that output X phantom powered on.The X range from 1~4.

➤ **[Digital output]Output\_Phpow\_X\_Off\_fb**

Singal used to indicate that output X phantom powered off.The X range from 1~4.

➤ **[Digital output]Output\_Invert\_X\_On\_fb**

Singal used to indicate that output X invert turned on.The X range from 1~8.

➤ **[Digital output]Output\_Invert\_X\_Off\_fb**

Singal used to indicate that output X invert turned off.The X range from 1~8.

➤ **[Digital output]Output\_Mute\_X\_On\_fb**

Singal used to indicate that output X muted on.The X range from 1~8.

➤ **[Digital output]Output\_Mute\_GroupA\_On\_fb**

Singal used to indicate that output group a muted on.

➤ **[Digital output]Output\_Mute\_GroupB\_On\_fb**

Singal used to indicate that output group b muted on.

➤ **[Digital output]Output\_Mute\_X\_Off\_fb**

- Singal used to indicate that output X muted off.The X range from 1~8.
- **[Digital output]Output\_Mute\_GroupA\_Off\_fb**  
Singal used to indicate that output group a muted off.
  - **[Digital output]Output\_Mute\_GroupB\_Off\_fb**  
Singal used to indicate that output group b muted off.
  - **[Analog output]Output\_Gain\_X\_fb**  
Singal used to indicate that output X gain.The X range from 1~8.
  - **[Analog output]Output\_Gain\_GroupA\_fb**  
Singal used to indicate that output group a gain.
  - **[Analog output]Output\_Gain\_GroupB\_fb**  
Singal used to indicate that output group b gain.
  - **[Analog output]Output\_Level\_X\_fb**  
Singal used to indicate that output X gain.The X range from 1~4.
  - **[Digital output]AM\_Input\_Auto\_X\_On\_fb**  
Singal used to indicate that auto mixer input X auto turned on.The X range from 1~8.
  - **[Digital output]AM\_Input\_Auto\_X\_Off\_fb**  
Singal used to indicate that auto mixer input X auto turned off.The X range from 1~8.
  - **[Digital output]AM\_Input\_Mute\_X\_On\_fb**  
Singal used to indicate that auto mixer input X muted on.The X range from 1~8.
  - **[Digital output]AM\_Input\_Mute\_X\_Off\_fb**  
Singal used to indicate that auto mixer input X muted off.The X range from 1~8.
  - **[Analog output]AM\_Input\_Gain\_X\_fb**  
Singal used to indicate that auto mixer input gain.The X range from 1~8.
  - **[Analog output]AM\_Input\_Priority\_X\_fb**  
Singal used to indicate that auto mixer input gain.The X range from 1~8.
  - **[Digital output]Output1\_From\_Input\_fb[X]**  
Singal used to indicate that output 1 current audio source.The X range from 1~12.
  - **[Digital output]Output2\_From\_Input\_fb[X]**  
Singal used to indicate that output 2 current audio source.The X range from 1~12.
  - **[Digital output]Output3\_From\_Input\_fb[X]**  
Singal used to indicate that output 3 current audio source.The X range from 1~12.
  - **[Digital output]Output4\_From\_Input\_fb[X]**  
Singal used to indicate that output 4 current audio source.The X range from 1~12.
  - **[Digital output]Output5\_From\_Input\_fb[X]**

Singal used to indicate that output 5 current audio source.The X range from 1~12.

➤ **[Digital output]Output6\_From\_Input\_fb[X]**

Singal used to indicate that output 6 current audio source.The X range from 1~12.

➤ **[Digital output]Output7\_From\_Input\_fb[X]**

Singal used to indicate that output 7 current audio source.The X range from 1~12.

➤ **[Digital output]Output8\_From\_Input\_fb[X]**

Singal used to indicate that output 8 current audio source.The X range from 1~12.