Here is an example of using 32 channels with T32MZ and R7108SB.

This document is an example of how to use it (Airplane 4 aileron 4 flap plus 19 additional channels). Please be aware that the connection and setting method differ depending on the usage conditions of the customer.
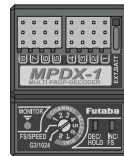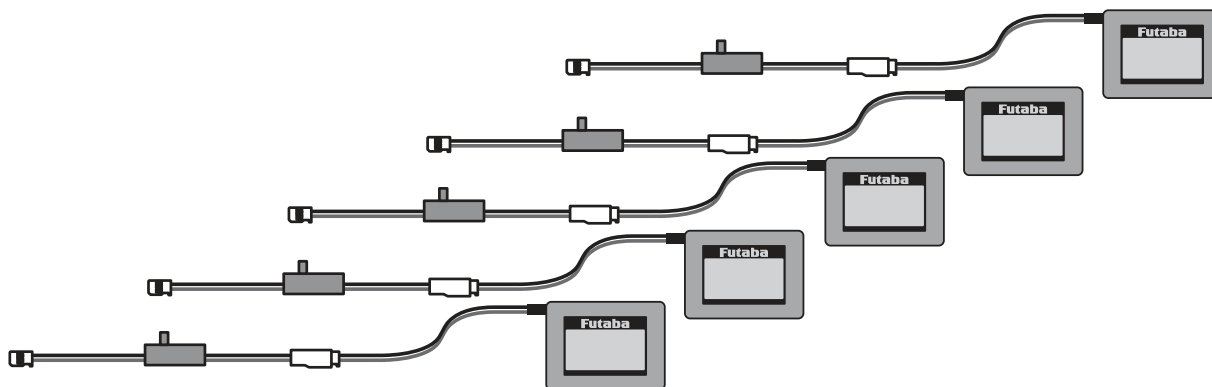
◆ Necessary items

◆ **T32MZ**   ◆ **R7108SB**

◆ **MPDX-1 2 pieces**   ◆ **SBD-2 2 pieces**

◆ **Receiver battery and switch 5 SET**

◆ The multiprop function can be used by using the separately sold multiprop decoder MPDX-1. The multiprop function is a function that divides one channel into eight channels and extends the number of channels. Up to 2 MPDX-1s can be used, and up to 32 channels can be expanded as follows.
- ○ Linear channel 14 channels (2 channels are used by multi-prop function)
- ○ ON / OFF channel 2 channels
- ○ Multiprop channels 16 channels

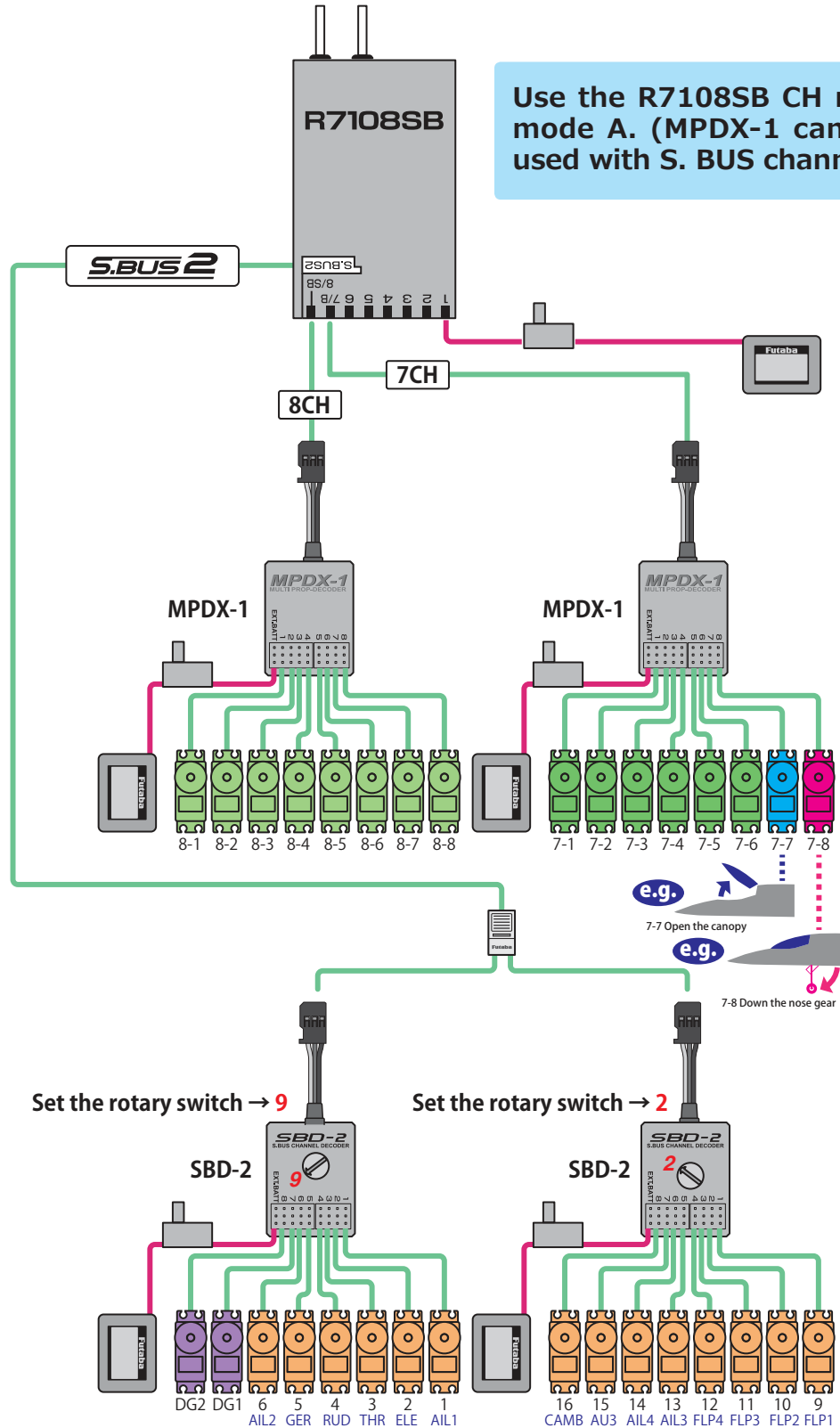◆ **Multiprop channels have the following differences from normal linear channels.**
- ● The resolution of the multiprop channel is lower than that of the linear channel.
- ● Operating multiple multiprop channels simultaneously may reduce the operation response of the multiprop channel.
- ● Multiprop channels can not use the mixing function.

◆ **CH which can be Multiprop set up.**
- ○ FASSTest 18CH   ---1-12CH
- ● FASSTest 12CH   ---not set
- ○ FASST MULTI   ---11,12CH
- ● FASST 7CH   ---not set
- ● T-FHSS, S-FHSS   ---not set

◆ Connection example

Use the R7108SB CH mode in mode A. (MPDX-1 can not be used with S. BUS channel.)

R7108SB

S.BUS2

S.BUS2

8/SB 7 6 5 4 3 2 1

7CH

8CH

MPDX-1 MULTI PROP-DECODER

MPDX-1

MPDX-1 MULTI PROP-DECODER

MPDX-1

EXT/BATT

8-1 8-2 8-3 8-4 8-5 8-6 8-7 8-8

7-1 7-2 7-3 7-4 7-5 7-6 7-7 7-8

e.g.
7-7 Open the canopy

e.g.
7-8 Down the nose gear

Set the rotary switch → **9**

SBD-2
S.BUS CHANNEL DECODER

9

SBD-2

EXT/BATT

Set the rotary switch → **2**

SBD-2
S.BUS CHANNEL DECODER

2

SBD-2

EXT/BATT

DG2	DG1	6	5	4	3	2	1
		AIL2	GER	RUD	THR	ELE	AIL1

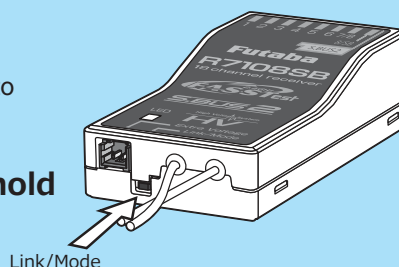| 16	15	14	13	12	11	10	9
CAMB	AU3	AIL4	AIL3	FLP4	FLP3	FLP2	FLP1

◆ How to set R7108SB to mode A

1 Turn on the receiver. [Transmitter is always OFF]

2 Press and hold the Link/Mode button for 5 seconds to 10 seconds.

**Press and hold
5 s - 10 s**

Link/Mode

3 When the LED of the receiver changes from blinking red to blinking red with green, Link/Mode button is released.

4 The LED should now blink red two times in the patterns described in the chart below.

5 Each press of the Link/Mode button advances the receiver to the next mode.

**Press several times until it
turns red LED blink 1 time.**

Link/Mode
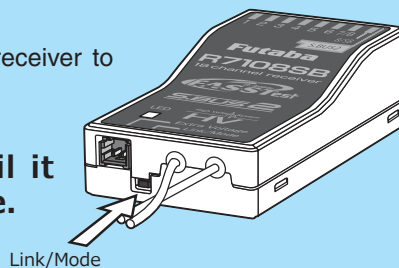
R7108SB CH Mode table

| Output connector	Channel			
	Mode A 1 ～ 8CH	Mode B 1 ～ 7CH	Mode C 9 ～ 16CH	Mode D 9 ～ 15CH
1	1	1	9	9
2	2	2	10	10
3	3	3	11	11
4	4	4	12	12
5	5	5	13	13
6	6	6	14	14
7/B	7	7	15	15
8/SB	8	S.BUS	16	S.BUS
Red LED blink	1 time	2 times	3 times	4 times

Default

6 When you reach the mode that you wish to operate in, press and hold the Link/Mode button for more than 2 seconds. When LED blinks in green with red, it is the completion of a mode change, Link/Mode button is released.

7 Please cycle the receiver power off and back on again after changing the Channel mode.

◆ How to set MPDX-1

*Although there is no description of the 2.4GHz system in the MPDX-1 manual, it is possible to use the 2.4GHz system in PCM-G3 mode.
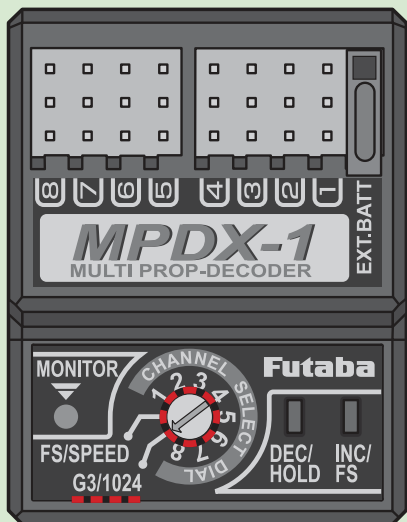
Operation mode setting

Set the operation mode to "PCM-G3".

1 Set the rotary switch to the "G3/1024" position.

2 Each time the "INC/FS" (or "DEC/HOLD") push switch is pushed for 1 second, the PCM-G3, PCM1024, and PPM mode is alternately selected. When the LED is off, the MPDX-1 is in the PCM-G3 mode, when the LED blinks slowly, the MPDX-1 is in the PCM1024 mode, and when the LED lights steadily, the MPDX-1 is in the PPM mode.

MONITOR LED	MODE
OFF	PCM-G3(2.4GHz)
Blinks slowly	PCM1024
Lights steadily	PPM

3 Set it to PCM-G3 of LED is off.

2.4GHz is used in PCM-G3 mode.

Fail safe and servo speed settings can be made for multiprop channels. If necessary, set according to the following.

F/S mode/HOLD mode setting

The operation mode of each servo when the receiver cannot receive signals normally can be set.

F/S mode: Servo moves to a preset position.

HOLD mode: Servo remains in its present position.

1 Set the rotary switch to the "FS/SPEED" position.

2 Push the "INC/FS" (or "DEC/HOLD") push switch to turn off the LED.

*Each time the push switch is pressed, the LED toggles between off and slow blink.

3 Set the rotary switch to the channel # you want to set to the F/S mode or HOLD mode.

When you want to set the channel to the F/S mode, move the servo to the F/S operation position at the transmitter side and push the "INC/FS" switch.

*When setting is complete, the LED lights.

When you want to set the channel to the HOLD mode, press the "DEC/HOLD" switch.

*When setting is complete, the LED goes off.

Servo speed setting

The delay of each servo can be set. The delay can be set within the 0 (no delay) to 10 (maximum delay) range.

1 Set the rotary switch to the "FS/SPEED" position.

2 Push the "INC/FS" (or "DEC/HOLD") push switch to slowly blink the LED.

*Each time the switch is pressed, the LED toggles between off and slow blink.

3 Set the rotary switch to the channel # whose delay you want to set.

When you want to increase the delay, push the "INC/FS" push switch.

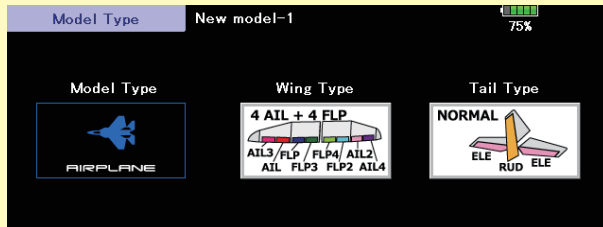When you want to decrease the delay, push the "DEC/HOLD" push switch.

*When the delay is zero, the LED goes off, when the delay is 4 or less, the LED blinks intermittently, and when the delay is 5 or greater, the LED blinks intermittently twice. The delay step is 10 steps. When maximum delay is set, the LED lights steadily.

◆ Setting example of T32MZ

*The function settings of multi-prop channels MP1 and MP2 are deleted when the system type is changed.

Linkage Menu → Model Type

Model Type	New model-1	75%

Model Type	Wing Type	Tail Type
AIRPLANE	4 AIL + 4 FLP (AIL3/FLP / FLP4/ AIL2, AIL FLP3 FLP2 AIL4)	NORMAL (ELE, RUD ELE)

e.g. 4AIL + 4FLP Airplane

Linkage Menu → Function

Function	New model-1	Condition 1	74%	1/2

CH	Function	Control	Trim	CH	Function	Control
1	Aileron	J1	T1	7	MP1	MP CH
2	Elevator	J3	T3	8	MP2	MP CH
3	Throttle	J2	T2	9	Flap	LS
4	Rudder	J4	T4	10	Flap2	NULL	NULL
5	Gear	SG	NULL	11	Flap3	RS	NULL
6	Aileron2	NULL	NULL	12	Flap4	NULL	NULL

Change CH7 to MP1 (Multiprop1).

Change CH8 to MP2 (Multiprop2).

Function 1/2 → Function 2/2

Function	New model-1

CH	Function	Control	T
13	Aileron3	NULL	NULL
14	Aileron4	NULL	NULL
15	Auxiliary3	NULL	
16	Camber	LST	NULL

DG2	SA

Change CH13 to Aileron3.

Change CH14 to Aileron4.

Function	New model-1	Condition 1	72%	1/2

CH	Function	Control	Trim	CH	Function	Control	Trim
1	Aileron	J1	T1	7	MP1	MP CH	
2	Elevator	J3	T3	8	MP2	MP CH	
3	Throttle	J2	T2	9	Flap	LS	NULL
4	Rudder	J4	T4	10	Flap2	NULL	NULL
5	Gear	SG	NULL	11	Flap3	RS	NULL
6	Aileron2	NULL	NULL	12	Flap4	NULL	NULL

Tap "MP CH"

Control	New model-1	70%

Multiprop CH (MP1)

CH	Control	CH	Control
1	SA	5	SI
2	SC	6	SJ
3	SD	7	SB
4	SE	8	SH

Multiprop CH (MP2)

CH	Control	CH	Control
1	T5	5	RS
2	T6	6	RST
3	LST	7	LD
4	LS	8	RD

Select the switch etc. for operating multiprop channels (7-1 to 7-8, 8-1 to 8-8).

An example of operating
7-7 Canopy with switch B
7-8 Nose gear with switch H

Control	New model-1					70%

Multiprop CH (MP1)				Multiprop CH (MP2)			
CH	Control	CH	Control	CH	Control	CH	Control
1	SA	5	SI	1	T5		**Set SB**
2	SC	6	SJ				
3	SD	7	SB	3	LST	7	LD
4	SE	8	SH	4	LS	8	RD

Set SH

e.g.

Nose gear down with switch H

e.g.

Canopy open with switch B
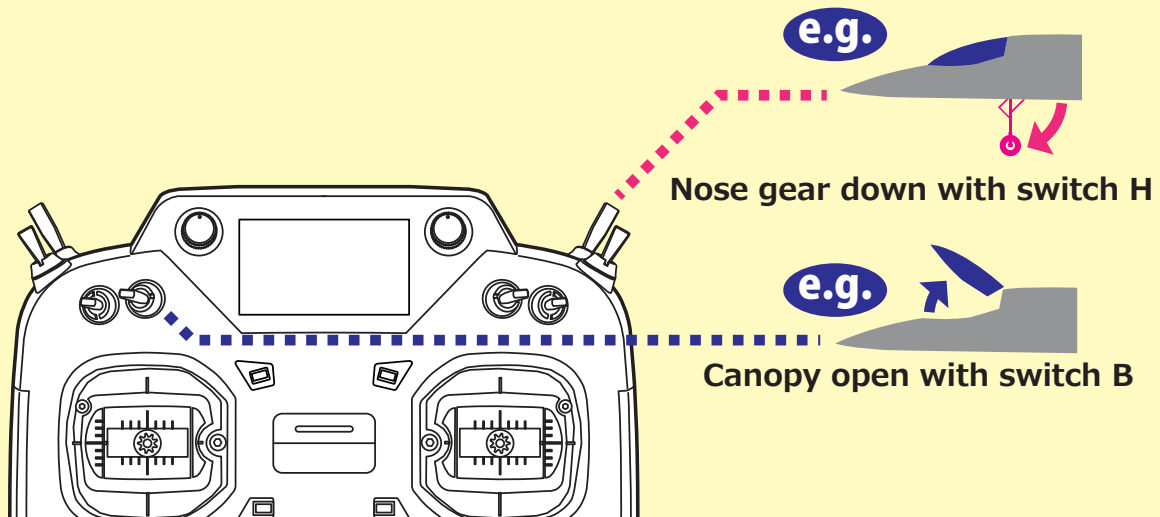
Linkage Menu → Servo Reverse → MP CH

Servo Reverse	New model-1					70%		
CH	Function	Setting	CH	Function	Setting	CH	Function	Setting
1	Aileron	NORM	7	MP1	MP CH	13	Aileron3	NORM
2	Elevator	NORM	8	MP2	MP CH	14	Aileron4	NORM
3	Throttle	NORM	9	Flap	NORM	15	Auxiliary3	NORM
4	Rudder	NORM	10	Flap2	NORM	16	Camber	NORM
5	Gear	NORM	11	Flap3	NORM		DG1	NORM
6	Aileron2	NORM	12	Flap4	NORM		DG2	NORM

Servo Reverse	New model-1					70%

Multiprop CH (MP1)				Multiprop CH (MP2)			
CH	Control	CH	Control	CH	Control	CH	Control
1	NORM	5	NORM	1	NORM	5	NORM
2	NORM	6	NORM	2	NORM	6	NORM
3	NORM	7	REV	3	NORM	7	NORM
4	NORM	8	NORM	4	NORM	8	NORM

Select the operation direction (Normal or Reverse) of multiprop channels (7-1 to 7-8, 8-1 to 8-8).

Linkage Menu → End Point（ATV）→ MP CH

Set the rate for multiprop channels (7-1 to 7-8, 8-1 to 8-8).