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**JET**POWER

## THEMEN DIESER AUSGABE

Jet-Rookie – die Serie für Einsteiger

Rookie-Meeting 2015

FJ-2 Fury

Flugzeug-Dokumentation

Aermacchi MB-326

Saab J 29F Tunnan

Jak-130

Beleuchtungsmodul

Aurora LCU EVO2

PowerExpander SRS

Elektrisches

Einziehfahrwerk

von Electron

Jetfan 120 ECO

Modellbau Wels

Florida Jets 2015

Bye bye Vulcan



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# Eighteen for the price of three

## The PowerExpander SRS from PowerBox helps (not only) Futaba users



For Futaba users the wait is over. The PowerExpander SRS enables users to exploit all the radio control system's channels even when using small but fully featured receivers. The PowerExpander can be purchased with a Deans connector (top picture) or an MPX connector (bottom picture).



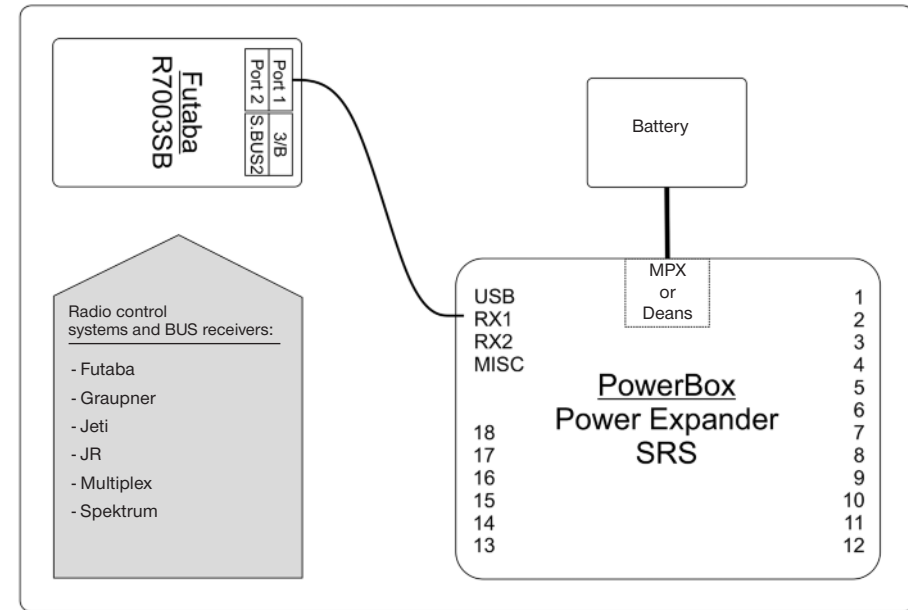
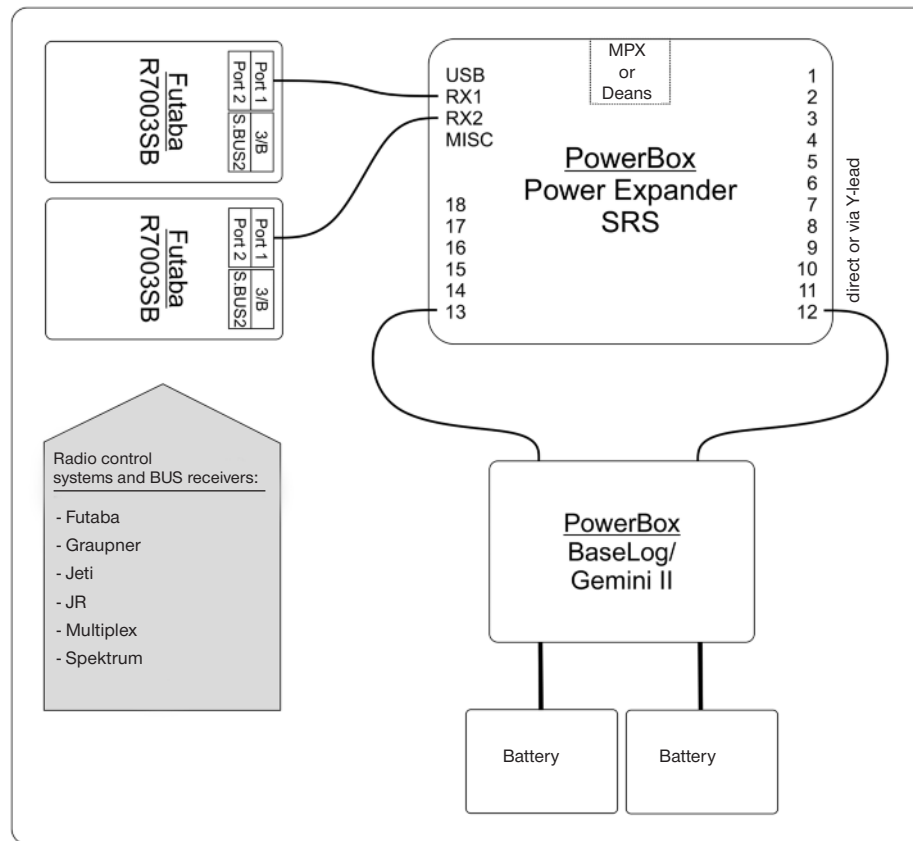
Since the introduction of Futaba's FASSTest telemetry protocol we Futaba pilots have been waiting in vain for a FASSTest receiver offering more than eight channels, i.e. a successor to the R6014HS receiver, which employed the FASST protocol.

For example, if I build a model today which needs fourteen channels, then I need two cascaded Futaba R7008SB receivers, i.e. I wire them together. I program one receiver to channels 1 to 8, and the other to 9 to 16. This works perfectly, but there is a caveat: Futaba currently sells these receivers at a princely price of 149

Euro per unit, which means that I have to invest 298 Euro to obtain the fourteen channels I need.

PowerBox Systems now offers a solution to this problem in the shape of the PowerExpander SRS. The unit works in conjunction with the radio control systems made by Futaba, Graupner, Jeti, JR, Multiplex and Spektrum, and is available in two versions

A second receiver can be connected to the unit to make a system with receiver redundancy, as shown in the diagram below.



Using the normal wiring arrangement the PowerExpander makes up to eighteen channels available.

which differ only in the integral battery connector: the one version of the Expander is fitted with an MPX connector, the other with a Deans connector.

The abbreviation SRS, which you will find appended to a number of PowerBox devices, stands for Serial Receiver System. This means that any receiver with a serial BUS port can be connected to such devices, and the PowerBox software will support them. The advantage is that the receiver only needs to be connected to the SRS device by means of a single, three-

core patch-lead, despite the fact that it outputs all the channels generated by the system itself. For example, in my case as a Futaba adherent using the FASSTest protocol this means sixteen proportional and two switched channels. With the Expander I can use the smallest available fully featured Futaba FASSTest receiver - the R7003SB - and still have access to all my eighteen channels.

However, the PowerExpander SS can do more than "just" make eighteen channels available from a three-channel receiver:

- It offers the facility to connect a second BUS-enabled receiver, in so doing creating a system with receiver redundancy.

- The current capacity is significantly higher than with a single receiver: the peak current capacity is 30 A.

- A battery (2S LiPo, 2S LiFePo, 5S NiCd / NiMH) can be connected to the integral MPX or Deans connector.

- The unit features an integral Power-Bus socket.

The sockets on the Expander are arranged as follows: USB = software update socket • RX1 & RX2 = receiver 1 and receiver 2 • MISC = Power-Bus socket • 1 to 18 = servos.

Naturally it is also possible to connect other PowerBox systems in order to operate the flexible Expander using a dual power supply.

To sum up - the requests from Futaba users for eighteen channels have been answered - by PowerBox Systems!

### JP SPECIFICATION

Operating voltage	4 - 9 V
Power supply	2S LiPo, 2S LiFePo, 5S NiCd / NiMH
Current drain	25 mA
Current capacity	Peak 30 A
Signal input	serial
Supported radio control systems	Futaba, Spektrum, Jeti, Graupner, JR, Multiplex
Receiver redundancy	SRS
Channels	18
Source	PowerBox Systems / model shops www.powerboxsys ems.com
Price	€ 129.00