



## FL3X Star-S

[www.star-cooperation.com](http://www.star-cooperation.com)

### BENEFITS FL3X STAR-S ACTIVE FR

- Connects 8 FlexRay channels, via SubD connectors
- Active data transfer between these bus connections
- Awake mode to use the FlexAS without a remote wake-up pattern on the bus
- Sleep mode with total support of wake-up (via FlexRay bus or via power-on)
- Power and bus activity are indicated by LEDs
- One NXP TJA1080A per active star branch
- Power supply range: 8-48 V DC
- Temperature range is from 0°C - +70°C.

### BENEFITS FL3X STAR-S PASSIVE FR

- Up to 6 passive branches
- Car body ground connection
- Several measure and test points
- Standard 9-pin Sub-D bus connectors / alternative 5-pin in-line strips
- Temperature range is from -40°C - +85°C.

### FL3X STAR-S ACTIVE FR & FL3X STAR-S PASSIVE FR OVERVIEW

The FL3X Star-S is available as an active or passive component, which are able to connect up to 8 ECUs together. They contain 8 FlexRay branches which can be used to build up complex FlexRay topologies. Especially for safety-relevant applications, they enhance both the availability and the reliability of the system.

## FL3X Star-S active FR

### TECHNICAL FEATURES

- Connects 8 FlexRay channels, via SubD connectors
- No housing
- Active data transfer between these bus connections
- Awake mode to use the FL3X Star without a remote wake-up pattern on the bus
- Sleep mode with total support of wake-up (via FlexRay bus or via power-on)
- Power and bus activity are indicated by LEDs
- One NXP TJA1080A per active star branch

### SCOPE OF DELIVERY

- FL3X Star-S active FR
- Documentation

### HARDWARE

#### Electrical characteristics

Supply voltage	min: 8 V	typ: 12 V	max: 36 V
Supply current quiescent	sleep mode	typ: 400 A @ 12 V	
Supply current operating	no bus load	typ: 65 mA @ 12 V	
Supply current operating	full bus load	max: 200 mA @ 12 V	

#### Physical characteristics

Power connector	DC-Jack 2.1 mm x 5.5 mm and 2 pin screw terminal		
Bus connectors	9 pin D-Sub male		
Weight approx.	135 g		
Dimensions (L x W x H)	125 x 100 x 33 mm		

#### Environmental conditions

Temperature operating:	-0°C to +70°C
Temperature storage:	-0°C to +70°C
IP-Code	IP20
Relative humidity	Operating / Storage: 0% to 95% RH, non-condensing

### ORDER INFORMATION

Product	Description	Order number
FL3X Star-S active FR	Active star coupler for FlexRay with stable alu housing.	3-V0140C01-01

## FL3X Star-S passive FR

### TECHNICAL FEATURES

- Up to 6 passive branches
- Car body ground connection
- Several measure and test points
- Standard 9-pin Sub-D bus connectors / alternative 5-pin in-line strips

### SCOPE OF DELIVERY

- FL3X Star-S passive FR
- Documentation

### HARDWARE

#### Physical characteristics

Bus connectors	9 pin D-Sub male
Weight approx.	120 g
Dimensions (L x W x H)	119 x 111 x 33 mm

#### Environmental conditions

Temperature operating:	-40°C to +85°C
Temperature storage:	-40°C to +85°C
IP-Code	IP20
Relative humidity	Operating / Storage: 0% to 95% RH, non-condensing

### ORDER INFORMATION

Product	Description	Order number
FL3X Star-S passive FR	Passive star coupler for FlexRay.	3-V0180C01-01