



# HiOSO Railway Industrial Ethernet Switches

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## FOWAY FC540A 1 10/100M RJ45 port Rail Type Media Converters



### Overview

Foway FC540A series is a single port Ethernet media converter, which can implement mutual conversion between 10Base-T/100Base-TX twisted pair electrical signal and 100Base-FX optical signal. Foway FC540A series media converter provide 2 RPS (Redundant power supply) input: 9.6 ~ 60 VDC and 18 ~ 30VAC, it can be connected to a DC or AC power supply. Besides, Foway FC540A series can work under the -40 ~ 75°C, With IP30 environmental protection grade, suitable for any industry. Foway FC540A series with the DIP switch, can enable or disable broadcast storm protection, for different industrial applications provide another flexible solution.

### Character

- ℓ RJ45 port 10 / 100M adaptive, with MDI and MDI-X auto recognition, automatic detection, automatic learning, good compatibility
- ℓ provide 2 RPS (Redundant power supply) input: 9.6 ~ 60 VDC and 18 ~ 30VAC
- ℓ Provide reverse polarity protection
- ℓ Support maximum 1552 byte long data packet transmission
- ℓ Side of the DIP switch dial 1 is enabled broadcast storm, dial the disabled broadcast storm
- ℓ With rugged metal housing IP30
- ℓ Support rails or distribution cabinet installation

**Technical Specification**

Parameters	Specifications
Access mode	10/100Mbps
Standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u 100Base-TX/FX Fast Ethernet, IEEE 802.3x Flow Control, IEEE802.1d Spanning Tree, IEEE802.1q vlan, IEEE802.1p Qos
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 2Km; dual-fiber single-mode: 25/40/60/80/100/120Km; single-fiber single-mode: 25/40/60/80/100Km Category-5 twisted pairs: 100m
Port	One RJ45 port: Connected to STP/UTP category-5 twisted pairs One fiber port: Multi-mode – SC or ST (fiber size: 50,62.5/125μm) Single mode – SC/FC fiber port (fiber size: 9/125μm) Single-fiber single-mode – SC/FC fiber port (fiber size: 9/125 μ m)
Conversion mode	Medium conversion, storing and forwarding/straight-through
MAC address table	1 K
Buffer space	1Mbit
Flow control	Full duplex state: flow control; half-duplex state: back pressure mode
Delay	Storing & forwarding: 9.6 μ s; straight-through: 0.9 μ s;
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	FX LINK/ACT (fiber link/action) SPD (twisted pair: transmission rate of 100M) TP LINK/ACT (twisted pair link/action); P1 (power supply P1) , P2 (power supply P2)
Power	12/24/48 VDC, 18 ~ 30VAC input
Power consumption	2W
Operating temperature	-40~75°C
Operating humidity	5%~90%
Storage temperature	-40~85°C
Storage humidity	5%~90% (non-condensing)
Dimensions	115mm×30mm×70mm (height * width * depth)

**Order information**

No	Product code	NMS	Ports	Storage temperature
1	FC540A-xxxx-xx	No	1 10/100M RJ45 + 1 100M SFP port	-10~60°C
2	FC540A-xxxx-xx-T	NO	1 10/100M RJ45 + 1 100M SFP port	-40~75°C

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## FOWAY FC540B 2 10/100M RJ45 ports Rail Type Media Converters



### Overview

Foway FC540B series is a 2 ports Ethernet media converter , which can implement mutual conversion between 10Base-T/100Base-TX twisted pair electrical signal and 100Base-FX optical signal. Foway FC540B series media converter provide 2 RPS (Redundant power supply) input : 9.6 ~ 60 VDC and 18 ~ 30VAC , it can be connected to a DC or AC power supply. Besides, Foway FC540B series can work under the -40 ~ 75°C , With IP30 environmental protection grade, suitable for any industry . Foway FC540B series with the DIP switch , can enable or disable broadcast storm protection, for different industrial applications provide another flexible solution

### Character

- ℓ RJ45 port 10 / 100M adaptive, with MDI and MDI-X auto recognition, automatic detection, automatic learning, good compatibility
- ℓ provide 2 RPS (Redundant power supply) input : 9.6 ~ 60 VDC and 18 ~ 30VAC
- ℓ Provide reverse polarity protection
- ℓ Support maximum 1552 byte long data packet transmission
- ℓ Side of the DIP switch dial 1 is enabled broadcast storm, dial the disabled broadcast storm
- ℓ With rugged metal housing IP30
- ℓ Support rails or distribution cabinet installation

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**Technical Specification**

Parameters	Specifications
Access mode	10/100Mbps
Standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u 100Base-TX/FX Fast Ethernet, IEEE 802.3x Flow Control, IEEE802.1d Spanning Tree, IEEE802.1q vlan, IEEE802.1p Qos
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 2Km; dual-fiber single-mode: 25/40/60/80/100/120Km; single-fiber single-mode: 25/40/60/80/100Km Category-5 twisted pairs: 100m
Port	Two RJ45 port: Connected to STP/UTP category-5 twisted pairs One fiber port: Multi-mode – SC or ST (fiber size: 50,62.5/125μm) Single mode – SC/FC fiber port (fiber size: 9/125μm) Single-fiber single-mode – SC/FC fiber port (fiber size: 9/125 μ m)
Conversion mode	Medium conversion, storing and forwarding/straight-through
MAC address table	1 K
Buffer space	1Mbit
Flow control	Full duplex state: flow control; half-duplex state: back pressure mode
Delay	Storing & forwarding: 9.6 μ s; straight-through: 0.9 μ s;
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	FX LINK/ACT (fiber link/action) SPD (twisted pair: transmission rate of 100M) TP LINK/ACT (twisted pair link/action); P1 (power supply P1) , P2 (power supply P2)
Power	12/24/48 VDC, 18 ~ 30VAC input
Power consumption	2W
Operating temperature	-40~75°C
Operating humidity	5%~90%
Storage temperature	-40~85°C
Storage humidity	5%~90% (non-condensing)
Dimensions	115mm×30mm×70mm (height * width * depth)

**Order information**

No	Product code	NMS	Ports	Storage temperature
1	FC540B-xxxx-xx	No	2 10/100M RJ45 + 1 100M SFP port	-10~60°C
2	FC540B-xxxx-xx-T	NO	2 10/100M RJ45 + 1 100M SFP port	-40~75°C

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## FOWAY FC540AG 1 10/100/1000M RJ45 port Rail Type Media Converters



### Overview

Foway FC540AG series is a single port Ethernet media converter, which can implement mutual conversion between 10Base-T/100Base-TX/1000Base-T twisted pair electrical signal and 1000Base-SX/LX optical signal. Foway FC540AG series media converter provide 2 RPS (Redundant power supply) input: 9.6 ~ 60 VDC and 18 ~ 30VAC, it can be connected to a DC or AC power supply. Besides, Foway FC540AG series can work under the -40 ~ 75°C, With IP30 environmental protection grade, suitable for any industry. Foway FC540AG series with the DIP switch, can enable or disable broadcast storm protection, for different industrial applications provide another flexible solution.

### Character

- ℓ RJ45 port 10/100/1000M adaptive, with MDI and MDI-X auto recognition, automatic detection, automatic learning, good compatibility
- ℓ provide 2 RPS (Redundant power supply) input: 9.6 ~ 60 VDC and 18 ~ 30VAC
- ℓ Provide reverse polarity protection
- ℓ Support maximum 1536 byte long data packet transmission
- ℓ Side of the DIP switch dial 1 is enabled broadcast storm, dial the disabled broadcast storm
- ℓ With rugged metal housing IP30
- ℓ Support rails or distribution cabinet installation

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Parameters	Specifications
Access mode	10/100/1000Mbps
Standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u 100Base-TX/FX Fast Ethernet, IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-SX/LX Gigabit Ethernet, IEEE 802.3x Flow Control, IEEE802.1d Spanning Tree, IEEE802.1q vlan, IEEE802.1p Qos
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 2Km; dual-fiber single-mode: 25/40/60/80/100/120Km; single-fiber single-mode: 25/40/60/80/100Km Category-5 twisted pairs: 100m
Port	One RJ45 port: Connected to STP/UTP category-5 twisted pairs One fiber port: Multi-mode – SC or ST (fiber size: 50,62.5/125μm) Single mode – SC/FC fiber port (fiber size: 9/125μm) Single-fiber single-mode – SC/FC fiber port (fiber size: 9/125 μ m)
Conversion mode	Medium conversion, storing and forwarding/straight-through
MAC address table	4 K
Buffer space	2Mbit
Flow control	Full duplex state: flow control; half-duplex state: back pressure mode
Delay	Storing & forwarding: 9.6 μ s; straight-through: 0.9 μ s;
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	FX LINK/ACT (fiber link/action) SPD (twisted pair: transmission rate of 1000M) TP LINK/ACT (twisted pair link/action); P1 (power supply P1) , P2(power supply P2)
Power	12/24/48 VDC, 18 ~ 30VAC input
Power consumption	2.5W
Operating temperature	-40~75°C
Operating humidity	5%~90%
Storage temperature	-40~85°C
Storage humidity	5%~90% (non-condensing)
Dimensions	115mm×30mm×70mm (height * width * depth)

### Technical Specification

### Order information

No	Product code	NMS	Ports	Storage temperature
1	FC540AG-xxxx-xx	No	1 10/100/1000M RJ45 + 1 1000M SFP port	-10~60°C
2	FC540AG-xxxx-xx-T	NO	1 10/100/1000M RJ45 + 1 1000M SFP port	-40~75°C

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**FOWAY FC540BG 2 10/100/1000M RJ45 ports Rail Type Media Converters****Overview**

Foway FC540BG series is a 2 ports Ethernet media converter , which can implement mutual conversion between 10Base-T/100Base-TX/1000Base-T twisted pair electrical signal and 1000Base-SX/LX optical signal. Foway FC540BG series media converter provide 2 RPS (Redundant power supply) input : 9.6 ~ 60 VDC and 18 ~ 30VAC , it can be connected to a DC or AC power supply. Besides, Foway FC540BG series can work under the -40 ~ 75°C , With IP30 environmental protection grade, suitable for any industry . Foway FC540BG series with the DIP switch , can enable or disable broadcast storm protection, for different industrial applications provide another flexible solution

**Character**

- ℓ RJ45 port 10/100/1000M adaptive, with MDI and MDI-X auto recognition, automatic detection, automatic learning, good compatibility
- ℓ provide 2 RPS (Redundant power supply) input : 9.6 ~ 60 VDC and 18 ~ 30VAC
- ℓ Provide reverse polarity protection
- ℓ Support maximum 1536 byte long data packet transmission
- ℓ Side of the DIP switch dial 1 is enabled broadcast storm, dial the disabled broadcast storm
- ℓ With rugged metal housing IP30
- ℓ Support rails or distribution cabinet installation

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**Technical Specification**

Parameters	Specifications
Access mode	10/100/1000Mbps
Standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u 100Base-TX/FX Fast Ethernet, IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-SX/LX Gigabit Ethernet, IEEE 802.3x Flow Control, IEEE802.1d Spanning Tree, IEEE802.1q vlan, IEEE802.1p Qos
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 2Km; dual-fiber single-mode: 25/40/60/80/100/120Km; single-fiber single-mode: 25/40/60/80/100Km Category-5 twisted pairs: 100m
Port	Two RJ45 port: Connected to STP/UTP category-5 twisted pairs One fiber port: Multi-mode – SC or ST (fiber size: 50,62.5/125μm) Single mode – SC/FC fiber port (fiber size: 9/125μm) Single-fiber single-mode – SC/FC fiber port (fiber size: 9/125 μ m)
Conversion mode	Medium conversion, storing and forwarding/straight-through
MAC address table	4K
Buffer space	2Mbit
Flow control	Full duplex state: flow control; half-duplex state: back pressure mode
Delay	Storing & forwarding: 9.6 μ s; straight-through: 0.9 μ s;
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	FX LINK/ACT (fiber link/action) SPD (twisted pair: transmission rate of 1000M) TP LINK/ACT (twisted pair link/action); P1 (power supply P1) , P2 (power supply P2)
Power	12/24/48 VDC, 18 ~ 30VAC input
Power consumption	3W
Operating temperature	-40~75°C
Operating humidity	5%~90%
Storage temperature	-40~85°C
Storage humidity	5%~90% (non-condensing)
Dimensions	115mm×30mm×70mm (height * width * depth)

**Order information**

No	Product code	NMS	Ports	Storage temperature
1	FC540BG-xxxx-xx	No	2 10/100/1000M RJ45 + 1 1000M SFP port	-10~60°C
2	FC540BG-xxxx-xx-T	NO	2 10/100/1000M RJ45 + 1 1000M SFP port	-40~75°C

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**FOWAY 4205TF 4 10/100M RJ45 ports + 1 100M FX Rail Type Ethernet switch****Overview**

Foway 4205TF series is a 4 ports Ethernet switch , which can implement mutual conversion between 10Base-T/100Base-TX twisted pair electrical signal and 100Base-FX optical signal. Foway 4205TF series media converter provide 2 RPS (Redundant power supply) input : 9.6 ~ 60 VDC and 18 ~ 30VAC , it can be connected to a DC or AC power supply. Besides, Foway 4205TF series can work under the -40 ~ 75°C , With IP30 environmental protection grade, suitable for any industry . Foway 4205TF series with the DIP switch , can enable or disable broadcast storm protection, for different industrial applications provide another flexible solution

**Character**

- ℓ RJ45 port 10 / 100M adaptive, with MDI and MDI-X auto recognition, automatic detection, automatic learning, good compatibility
- ℓ provide 2 RPS (Redundant power supply) input : 9.6 ~ 60 VDC and 18 ~ 30VAC
- ℓ Provide reverse polarity protection
- ℓ Support maximum 1552 byte long data packet transmission
- ℓ Side of the DIP switch dial 1 is enabled broadcast storm, dial the disabled broadcast storm
- ℓ With rugged metal housing IP30
- ℓ Support rails or distribution cabinet installation

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**Technical Specification**

Parameters	Specifications
Access mode	10/100Mbps
Standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u 100Base-TX/FX Fast Ethernet, IEEE 802.3x Flow Control, IEEE802.1d Spanning Tree, IEEE802.1q vlan, IEEE802.1p Qos
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 2Km; dual-fiber single-mode: 25/40/60/80/100/120Km; single-fiber single-mode: 25/40/60/80/100Km Category-5 twisted pairs: 100m
Port	Four RJ45 port: Connected to STP/UTP category-5 twisted pairs One fiber port: Multi-mode – SC or ST (fiber size: 50,62.5/125μm) Single mode – SC/FC fiber port (fiber size: 9/125μm) Single-fiber single-mode – SC/FC fiber port (fiber size: 9/125 μ m)
Conversion mode	Medium conversion, storing and forwarding/straight-through
MAC address table	1 K
Buffer space	1Mbit
Flow control	Full duplex state: flow control; half-duplex state: back pressure mode
Delay	9.6us
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	FX LINK/ACT (fiber link/action) SPD (twisted pair: transmission rate of 100M) TP LINK/ACT (twisted pair link/action); P1 (power supply P1) , P2(power supply P2)
Power	12/24/48 VDC, 18 ~ 30VAC input
Power consumption	3W
Operating temperature	-40~75°C
Operating humidity	5%~90%
Storage temperature	-40~85°C
Storage humidity	5%~95% (non-condensing)
Dimensions	115mm×30mm×70mm (height * width * depth)

**Order information**

No	Product code	NM S	Ports	Storage temperature
1	Foway4205TF-xxxx-xx	No	4 10/100M RJ45 + 1 100M FX SFP port	-10~60°C
2	Foway4205TF-xxxx-xx-T	NO	4 10/100M RJ45 + 1 100M FX SFP port	-40~75°C

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## FOWAY 4205T 4 10/100M RJ45 ports Rail Type Ethernet switch



### Overview

Foway 4205T series is a 5 ports industry Ethernet switch ,provide 4 10/100M RJ45 ports and 1 10/100M adaptive RJ45 ports. Foway 4205T series media converter provide 2 RPS (Redundant power supply) input : 9.6 ~ 60 VDC and 18 ~ 30VAC , it can be connected to a DC or AC power supply. Besides, Foway 4205T series can work under the -40 ~ 75°C , With IP30 environmental protection grade, suitable for any industry . Foway 4205T series with the DIP switch , can enable or disable broadcast storm protection, for different industrial applications provide another flexible solution

### Character

- ℓ RJ45 port 10 / 100M adaptive, with MDI and MDI-X auto recognition, automatic detection, automatic learning, good compatibility
- ℓ provide 2 RPS (Redundant power supply) input : 9.6 ~ 60 VDC and 18 ~ 30VAC
- ℓ Provide reverse polarity protection
- ℓ Support maximum 1552 byte long data packet transmission
- ℓ Side of the DIP switch dial 1 is enabled broadcast storm, dial the disabled broadcast storm
- ℓ With rugged metal housing IP30
- ℓ Support rails or distribution cabinet installation

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**Technical Specification**

Parameters	Specifications
Access mode	10/100Mbps
Standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u 100Base-TX/FX Fast Ethernet, IEEE 802.3x Flow Control, IEEE802.1d Spanning Tree, IEEE802.1q vlan, IEEE802.1p Qos
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 2Km; dual-fiber single-mode: 25/40/60/80/100/120Km; single-fiber single-mode: 25/40/60/80/100Km Category-5 twisted pairs: 100m
Port	Five RJ45 port: Connected to STP/UTP category-5 twisted pairs
Conversion mode	Medium conversion, storing and forwarding/straight-through
MAC address table	1 K
Buffer space	1Mbit
Flow control	Full duplex state: flow control; half-duplex state: back pressure mode
Delay	9.6us
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	FX LINK/ACT (fiber link/action) SPD (twisted pair: transmission rate of 100M) TP LINK/ACT (twisted pair link/action); P1 (power supply P1) , P2 (power supply P2)
Power	12/24/48 VDC, 18 ~ 30VAC input
Power consumption	3W
Operating temperature	-40~75°C
Operating humidity	5%~90%
Storage temperature	-40~85°C
Storage humidity	5%~95% (non-condensing)
Dimensions	115mm×30mm×70mm (height * width * depth)

**Order information**

No	Product code	NMS	Ports	Storage temperature
1	Foway4205T-xxxx-xx	No	5 10/100M RJ45	-10~60°C
2	Foway4205T-xxxx-xx-T	NO	5 10/100M RJ45	-40~75°C

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## FOWAY 4505TF 4 10/100/1000M RJ45 ports + 1 1000M FX Rail Type Ethernet switch



### Overview

Foway 4505TF series is a 4 ports Ethernet switch, which can implement mutual conversion between 10Base-T/100Base-TX/1000Base-T twisted pair electrical signal and 1000Base-SX/LX optical signal. Foway 4505TF series media converter provide 2 RPS (Redundant power supply) input: 9.6 ~ 60 VDC and 18 ~ 30VAC, it can be connected to a DC or AC power supply. Besides, Foway 4505TF series can work under the -40 ~ 75°C, With IP30 environmental protection grade, suitable for any industry. Foway 4505TF series with the DIP switch, can enable or disable broadcast storm protection, for different industrial applications provide another flexible solution.

### Character

- ℓ RJ45 port 10/100/1000M adaptive, with MDI and MDI-X auto recognition, automatic detection, automatic learning, good compatibility
- ℓ provide 2 RPS (Redundant power supply) input: 9.6 ~ 60 VDC and 18 ~ 30VAC
- ℓ Provide reverse polarity protection
- ℓ Support maximum 1536 byte long data packet transmission
- ℓ Side of the DIP switch dial 1 is enabled broadcast storm, dial the disabled broadcast storm
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**Technical Specification**

Parameters	Specifications
Access mode	10/100/1000Mbps
Standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u 100Base-TX/FX Fast Ethernet, IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-SX/LX Gigabit Ethernet, IEEE 802.3x Flow Control, IEEE802.1d Spanning Tree, IEEE802.1q vlan, IEEE802.1p Qos
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 2Km; dual-fiber single-mode: 25/40/60/80/100/120Km; single-fiber single-mode: 25/40/60/80/100Km Category-5 twisted pairs: 100m
Port	Four RJ45 port: Connected to STP/UTP category-5 twisted pairs One fiber port: Multi-mode – SC or ST (fiber size: 50,62.5/125μm) Single mode – SC/FC fiber port (fiber size: 9/125μm) Single-fiber single-mode – SC/FC fiber port (fiber size: 9/125 μ m)
Conversion mode	Medium conversion, storing and forwarding/straight-through
MAC address table	4 K
Buffer space	2Mbit
Flow control	Full duplex state: flow control; half-duplex state: back pressure mode
Delay	9.6us
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	FX LINK/ACT (fiber link/action) SPD (twisted pair: transmission rate of 1000M) TP LINK/ACT (twisted pair link/action); P1 (power supply P1) , P2(power supply P2)
Power	12/24/48 VDC, 18 ~ 30VAC input
Power consumption	4W
Operating temperature	-40~75°C
Operating humidity	5%~90%
Storage temperature	-40~85°C
Storage humidity	5%~95% (non-condensing)
Dimensions	115mm×30mm×70mm (height * width * depth)

**Order information**

No	Product code	NMS	Ports	Storage temperature
1	Foway4505TF-xxxx-xx	No	4 10/100/1000M RJ45 + 1 1000M FX SFP port	-10~60°C
2	Foway4505TF-xxxx-xx-T	NO	4 10/100/1000M RJ45 + 1 1000M FX SFP port	-40~75°C

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