# 10G Ethernet Multi-rate Media Converters

Doc.230731

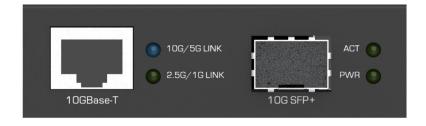
# 1. Product Overview

The media converter provides a great solution for connecting copper Ethernet and fiber Ethernet that supports multiple line rates of 10G/5G/2.5G/1Gbps capability. It is also equipped with Link Fault Pass-Through (LFPT) function. The LFPT function is useful for remote user when the link loss on one side of media converter can be passed to the other side, so that the near end can aware the fault condition that occurs at the far end behind two media converter connection.

#### 2. Product Features

- The device supports the following multi-rate and media conversion:
  - 10GBASE-T to 10GBASE-R conversion
  - 5GBASE-T to 5GBASE-R conversion
  - 2.5GBASE-T to 2500BASE-X conversion
  - 1000BASE-T copper to 1000BASE-X (without auto-negotiation support) fiber conversion
- Supports auto-negotiation and Auto-MDI/MDI-X detection on the copper port
- Supports full wire speed conversion
- Supports transparent conversion for any packet types with no packet length limitation
- Provides link fault pass through function

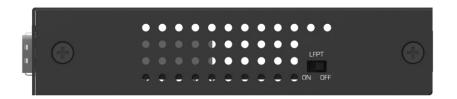
#### 3. Hardware Overview



Front panel



Rear panel



Right side

# 4. LED Indication

# Standby stage:

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LED	Color	Status	Operation	
PWR	Green	ON	The converter is powered.	
ACT	Green	Blink	Transmitting / Receiving data activities	
		OFF	No data traffic	
10G/5G Link	Blue	ON	10G or 5G connection rate	
2.5G/1G Link	Green	ON	2.5G or 1G connection rate	

### Power on stage:

LFPT function	Operation
Enable	All LED except PWR LED is blinking twice
Disable	ALL LED is ON for 2 seconds

Alarm: All LED except PWR LED is blinking thrice when unknown transceiver module is inserted.

# **5. Package Contents**

The following items should be present in the product package:

- The media converter unit
- One power adapter

# 6. Technical Specifications

Specifications				
Standard	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3an  Copper interface: 10GBASE-T, 5GBASE-T, 2.5GBASE-T, 1000BASE-T  Fiber interface: 10GBASE-R(XFI), 5GBASE-R, 2500BASE-X,			
Network Ports	1000BASE-X (without auto-negotiation support)  Copper port: Shielded RJ-45, Auto-negotiation, Auto-MDI/MDI-X,  10G/5G/2.5G/1Gbps, Full/Half duplex  Eiber port: SER, elect for SER or SER, fiber transceiver.			
	Fiber port: SFP+ slot for SFP or SFP+ fiber transceiver,  10G/5G/2.5G/1Gbps, Full duplex  Copper port: Cat.6a, 7 or higher for 10GBASE-T up to 70m,			
Network Cables	Cat.5e or higher for 5G/2.5G/1000BASE-T up to 100m Fiber port: MMF 50/125μm, 62.5/125μm, SMF 9/125μm Link Fault Pass Through function setting			
DIP SW	DIP SW setting change will not take effect until next boot-up.  Rule 1: Fiber port is always forced to link down when copper port is			
LFPT function	down.  Rule 2: Fiber port link down forces copper port to link down when DIP SW (LFPT) is ON.  Note: Single fiber cable failure events are not supported by the LFPT function.			
Power Input	+5VDC via external power adapter			
Power Consumption	3.8W max			
Housing	Enclosed metal with no fan			
Dimension	75 x 102 x 22.2 mm (WxDxH)			
Temperature	Operating: 0°C ~ 50°C, Storage: -20°C ~ 70°C			
Humidity	0% ~ 90% (non-condensing)			
Approval	FCC Class B, CE mark Class B			

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#### **FCC NOTICE**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) This device must accept any interference received, including the interference that may cause undesired operation.

#### **CE NOTICE**

Marking by the symbol indicates compliance of this equipment to the EMC directive of the European Community. Such marking is indicative that this equipment meets or exceeds the following technical standards:

EN 55032:2015 + A1:2020 EN 55035:2017 + A11:2020

