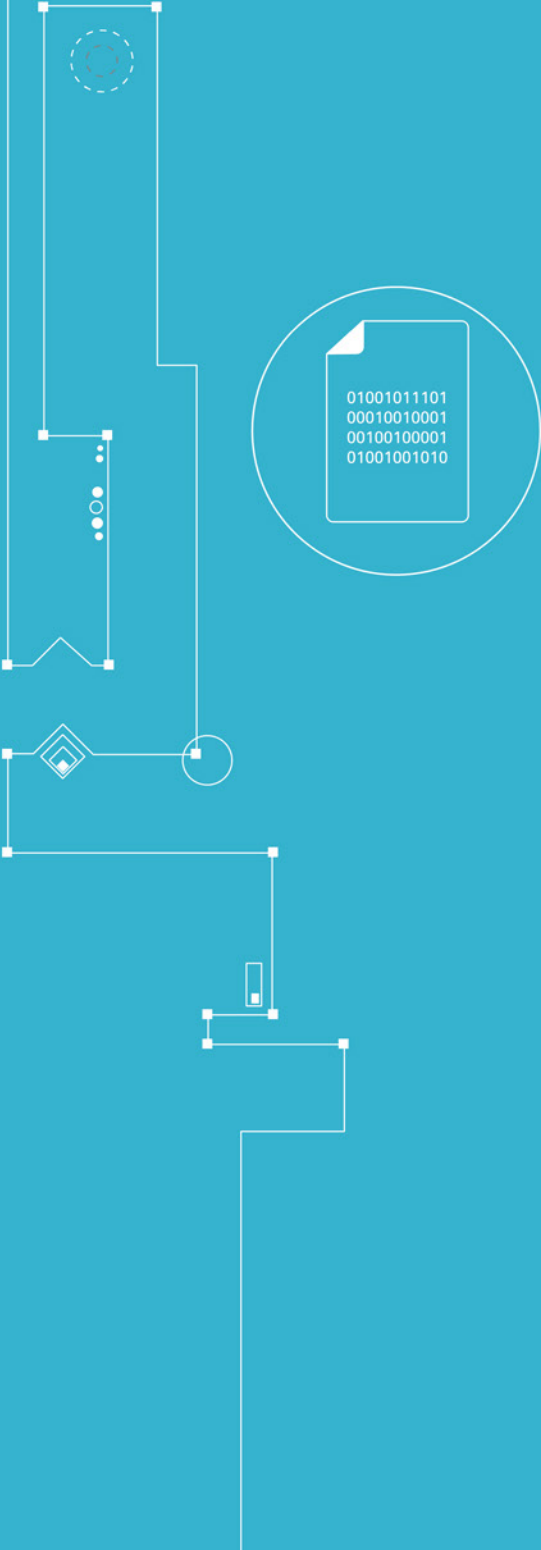




**CUBRO**  
NETWORK VISIBILITY

# DUAL MEDIA CONVERTER

## DATA SHEET



```
01001011101
00010010001
00100100001
01001001010
```

**Published at Cubro, March 2024**

Please refer to the latest version of this document on our website  
to ensure you have the most up-to-date information.

## Dual Media Converter

### Definition

A media converter is simply two MAUs (media attachment units, also known as transceivers) that can pass data to/from each other.

### Advantages of Dual Media Converter

- **Enhanced Protocol Support** - Ensures compatibility with an extensive range of protocols, data rates, and media types, bolstering network reliability and cost efficiency.
- **SFP and SFP+ Compatibility** – Seamlessly integrates with SFP and SFP+ interfaces, offering flexibility and adaptability to diverse network setups.
- **Space-Efficient Design** – Consolidates two independent media converters within a single chassis, optimizing rack space utilization without compromising performance.
- **Minimal Latency** – Does not introduce delay or jitter, ensuring seamless data transmission and responsiveness.
- **Transparent Pricing** – No additional port licensing fees or software feature licensing.

## Product Overview



Cubro Dual Media Converter provides seamless integration of copper and fibre connections. It supports a wide variety of protocols, data rates and media types to create a more reliable and cost-effective network. Dual Media Converter supports SFP and SFP+ transceivers for flexibility.

This sophisticated device enables the implementation of an extremely wide range of optical/copper infrastructure solutions from media conversion and signal boosting to lambda conversion, Wavelength Division Multiplexing (WDM) and Optical Add/Drop Multiplexing (OADM).

## Sync-E and IEEE1588 ready

The Cubro Dual Media Converter can also be deployed in Optical Sync-E networks. If the network is carrying IEEE 1588 Sync traffic, a standard media converter with switches inside could cause a delay depending on the traffic load which deteriorates the quality of the sync signal. The Cubro Dual Media Converter has a very small delay of 500 ps and it is not dependent on the traffic load.

## Functions / Benefits:

- Converts one media type into another media type, the most common use is optical to electrical.
- Provides fibre-to-fibre conversion from multi-mode fibre to single mode fibre.
- Enables amplification of poor signals to work over longer distances, this is a useful option especially in multimode fibre networks.
- Converts dual fibre to a BIDI system.
- Converts from one CWDM/DWDM wavelength to another.

## Product Capabilities / Features

Media Conversion	Select the media by changing the SFP/SFP+. The unique design supports also CWDM / DWDM and BIDI SFP/SFP+.
Supports SFP and SFP+	Ethernet 100M/1G/10G SDH/SONET up to 10G Fiber Channel up to 8G
Full Duplex support	Yes
Zero delay	Maximum delay introduced is 500ps
Layer 1 to Layer 7 transparent	All packets pass the unit without any change
Jumbo Frame Support	Supports jumbo Ethernet frames with any size
Rugged metal housing	The unit is delivered in a rugged sized metal housing. 3 Units can be installed in 1U 19 inch rack.

## Technical Data / Specifications

### Operating specifications:

Operating Temperature: 0°C to 40°C

Storage Temperature: -10°C to 70°C

Relative Humidity: 10% min, 95% max, Non-condensing

### Mechanical specifications:

Dimensions: 38 mm (H) x 168,5 mm (L) x 144 mm (W)

### Electrical specifications:

12V DC external power supply

Power consumption is SFP/SFP+ dependent

Typical 500 mA for Gbit up to 1500 mA in 10 Gbit

### Certifications:

Fully RoHS compliant

CE compliant

## Ordering Information

Product Type & Number	Description
CBR.MEDSFP-2-R3	Media Converter, up to 10Gbit, 2 Links SFP(+) to SFP(+), 1/3 19" rackmount housing (rackmount kit not included)
CBR.RM19-3	CUBRO 19" Rackmount Kit for 3 x 1/3 19" units
CBR.PS-12	Additional AC/DC power supply

For more information please check our website [www.cubro.com](http://www.cubro.com).