

Transform your connectivity.

Maximize your capability.

Application

At ProLabs, we know how to connect the world; our aim is to support our customers and transform network connectivity. As a leading global independent provider of optical network solutions, we have been providing telecoms equipment for many years, and we can offer an extensive range of high-quality products including optical and copper transceivers; direct attach and active optical cables, media converters, and fiber cabling. These products are supported by a wealth of industry expertise and innovative capabilities.

We know that the world of telecoms is always expanding with multiple ways to connect a network; mainly through fiber and copper.

The main reason fiber optics was conceived was the short transmission distance that could be achieved over copper. A CAT cable currently has a max distance of around 100m. This is a problem when connecting networks over this distance, such as a campus with multiple buildings.

Current Issues faced by Network Designers

Focusing on the Fiber and Copper element of telecoms, there needed to be a crossover between the two. For this to happen, and for fiber to be utilized over a legacy copper network, the media converter was born. They have come in line with the speed of today's transferable data rates. We now have 100mb through 1GB and even up to 10GB.

With the expansion of the telecoms industry, with its appetite for more bandwidth, cheaper costs and the need for precious space within a datacenter or network room, everything needs to become better, cheaper and more compact.

Functionality

Our Mini Media Converters (MiMC) range can do everything our standard converters can do, including Bi-directional units. The converters Auto MDI/ MDIX function means you never have to worry what cable has been used, crossover or straight through will both work. The Link Fault Pass Through (LFPT) function, when used with a pair of converters, will identify a link fault on side A, which will pass this to side B and will alarm network administrators of an error.



Compact size

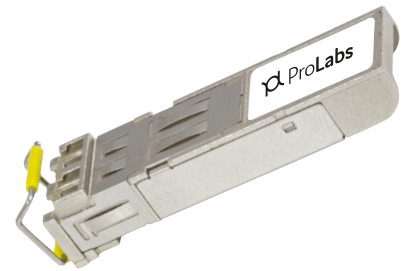
If used in a cabinet, 12 MiMC's can be used in a 1U rack space. Considering most media converters used in a cabinet chassis will utilize a 2U space for only 14/16 converters, this extra 1U saved is invaluable for the growing industry, as it can be used to power either another 12 converters or even a new Switch.



Compatibility with Transceivers

The MiMic range has the ability to provide short or long-distance transmission. We have a fixed version for times when the converter will never need to be touched and can be left in place, but we also have the re-useable version, or open slot SFP converters.

These are great for when a project has been completed, and a new one has started. Each project may have different needs, such as link that is less than 1k, or another that has a need for 80km. The SFP converter can accept both, and are plug and play. Bi-directional and WDM SFP's can also be used. ProLabs can provide a range of transceivers to cater to your projects every need.



Certifications

Our converters are tested to industry standards, including:

EMI:

FCC part 15, Subpart B Class A, EN55022 Class A
Vibration: IEC 60068-2-6
Freefall: IEC 60068-2-32
Shock: IEC60028-2-27
Rail Traffic: EN50121-4
CE Mark
CE/LVD EN60950

EMS:

EN61000-4-2 (ESD) Level3,
EN61000-4-3 (RS) Level 3,
EN61000-4-4 (EFT) Level 3,
EN61000-4-5 (Surge) Level 3,
EN61000-4-6 (CS) Level 3,
EN61000-4-8

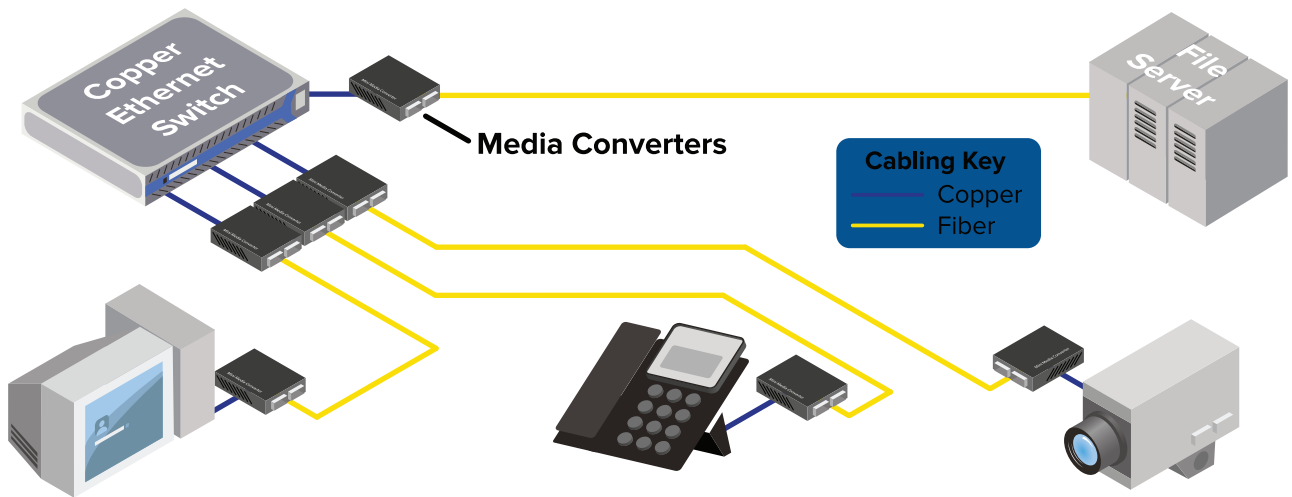
Warranty:

ProLabs offer a 5 year replacement warranty on all media converters that fail under normal working conditions

Ordering Information

Product	Description
Standard Converters	
MIMC-PRO-1000-SFP	Mini 10/100/1000 SFP Media Converter
MIMC-PRO-1000-SX-SC	Mini 10/100/1000M Dual Fiber MM 850nm 550m, SC
MIMC-PRO-1000-LX-SC	Mini 10/100/1000M Dual Fiber SM 1310nm 20Km, SC
MIMC-PRO-1000-EX-SC	Mini 10/100/1000M Dual Fiber SM 1550nm 40Km, SC
MIMC-PRO-1000-ZX-SC	Mini 10/100/1000M Dual Fiber SM 1550nm 80Km, SC
MIMC-PRO-100-SFP	Mini 10/100M SFP Media Converter
MIMC-PRO-100-SX-SC	Mini 10/100M Dual Fiber MM 850nm 550m, SC
MIMC-PRO-100-FX-SC	Mini 10/100M Dual Fiber SM 1310nm 2Km, SC
MIMC-PRO-100-LX-SC	Mini 10/100M Dual Fiber SM 1310nm 20Km, SC
MIMC-PRO-100-EX-SC	Mini 10/100M Dual Fiber SM 1310nm 40 Km, SC
MIMC-PRO-100-ZX-SC	Mini 10/100M Dual Fiber SM 1550nm 80Km, SC
MIMC-PRO-100-EZX-SC	Mini 10/100M Dual Fiber SM 1550nm 100Km, SC
Fixed Bi-directional Converters	
MIMC-PRO-1G-LBXU-SC	Mini 10/100/1000M Single Fiber SM1310/1550nm 20Km, SC
MIMC-PRO-1G-LBXD-SC	Mini 10/100/1000M Single Fiber SM1550/1310nm 20Km, SC(With DFB)
MIMC-PRO-1G-EBXU-SC	Mini 10/100/1000M Single Fiber SM1490/1550nm 40km,SC(With DFB)
MIMC-PRO-1G-EBXD-SC	Mini 10/100/1000M Single Fiber SM1550/1490nm 40km,SC(With DFB)
MIMC-PRO-1G-ZBXU-SC	Mini 10/100/1000M Single Fiber SM1490/1550nm 80km,SC(With DFB)
MIMC-PRO-1G-ZBXD-SC	Mini 10/100/1000M Single Fiber SM1550/1490nm 80km,SC(With DFB)
CEO Converters	
MIMC-PRO-100-SM/MM-MINI-SC	Mini 100BASE Fiber to Fiber Media Converter. Single mode fiber (20km) to multimode fiber (550m). Fixed SC ports.
MIMC-PRO-1000-SM/MM-MINI-SC	Mini 1000BASE Fiber to Fiber Media Converter. Single mode fiber (20km) to multimode fiber (550m). Fixed SC ports.
MIMC-PRO-1000-SM/MM-MINI-SFP	Mini 125M~1.25G SFP to SFP Converter
Chassis for Converters	
MIMC-PRO-1U12S-CHASSIS	Rack Mountable Chassis 1U, 12 Slots. For mini media converters. (Single or Dual AC or DC power supplies.)
Power Supply Cables	
MIMC-PWR-UK	Power adapter for mini media converters –UK SPEC
MIMC-PWR-EU	Power adapter for mini media converters – EU SPEC
MIMC-PWR-US	Power adapter for mini media converters – US SPEC
CAB-AC	Power cable for chassis unit – US SPEC
CAB-ACE	Power cable for chassis unit – EU SPEC
CAB-ACU	Power cable for chassis unit – UK SPEC

Real World Applications for Media Converters



Visit www.prolabs.com for more connectivity solutions.