

OPTICAL MICRO MODEM

Models BFO-0100-001 / BFO-0100/002

Datasheet – English

This confidential document was prepared by the BMPTECH team, which also holds its copyright. All rights granted under copyright law and applicable international copyright conventions are reserved to the Company. Reproduction, copying, reprinting, or any form of material reproduction of this document, in whole or in part, is strictly prohibited. Additionally, the content of this document, including any methods or techniques described within, must not be disclosed to third parties without prior written authorization from the Company © 2025 BMPTech Engenharia LTDA.

BMPTECH ENGENHARIA LTDA

CNPJ: 35.401.189/0001-09
Adress: Estr. do Mato Alto, 3333 LT:04
Guaratiba – Rio de Janeiro - RJ
CEP: 23036-150

Phone n°: +55 021 2249-1510
E-mail: comercial@bmptech.com.br
Website: <http://www.bmp.ltd>

OPTICAL MICRO MODEM

MODELS BFO-0100-001 / BFO-0100-002

The **BFO-0100 optical micro modem series** from **BMPTECH** is a compact, robust, and highly reliable solution for fiber optic data communication in harsh operational environments. The series includes two versions: the **surface unit (BFO-0100-001)**, designed for dry environment installations, and the **subsea unit (BFO-0100-002)**, encapsulated in a pressure-resistant enclosure ideal for submerged operation and integration into pressure-compensated housings. Engineered for industrial, offshore, and subsea systems, the device converts between Gigabit Ethernet networks and SFP optical links, offering data rates of up to **1.25 Gbps**. Its robust design ensures stable and continuous communication even under extreme conditions, safeguarding data integrity in critical applications.

Main applications include:

ROV and underwater systems, underwater cameras and sensors, industrial networks on platforms and vessels, and optical network integration in aggressive environments.

OPERATION FEATURES

- **Diagnostic LEDs:**
 - Ethernet activity indication;
 - Optical link status;
 - Power supply diagnostics;
- **Plug & Play Installation:**
 - Automatic speed detection and configuration;
 - No additional software or setup required;

KEY DIFFERENTIATORS

- Brazilian design with specialized technical support;
- High reliability in extreme environments;
- Compatible with a wide range of commercial SFP modules;
- Developed with a focus on durability, performance, and easy installation;

OPTICAL MICRO MODEM

MODELS BFO-0100-001 / BFO-0100-002

TECHNICAL SPECIFICATIONS

Electrical	Voltage	(6 to 24)VDC
	Energy consumption	<3W
	Communication interface	1x RJ45 Ethernet Port - 10/100/1000 Mbps; 1x SFP Slot - compatible with 1.25 Gbps MM and SM modules (Hot-Swappable)
Mechanics	Dimensions	79 x 27.5 x 22mm (L x W x H)