



## MC201-F

Wall Mounting

1 CAN to Fiber MODEM

- Support 1 CAN port to 1 fiber port
- CAN port supports two options for choosing baud rate, automatic detection and user definition. The range of baud rate is 2.5kbps-1000kbps
- Data receiving/storing/forwarding could be achieved between 2 CAN networks with different rates when used in pairs
- It can extend CAN bus transmission distance, the transmission distance of fiber port can reach up to 15km
- Support -40 ~ 75°C wide operating temperature range



ICP Alphatec  
Tel: +44 (0) 203 086 9569

[www.icpalphatec.com](http://www.icpalphatec.com)  
Email: [sales@icpalphatec.com](mailto:sales@icpalphatec.com)

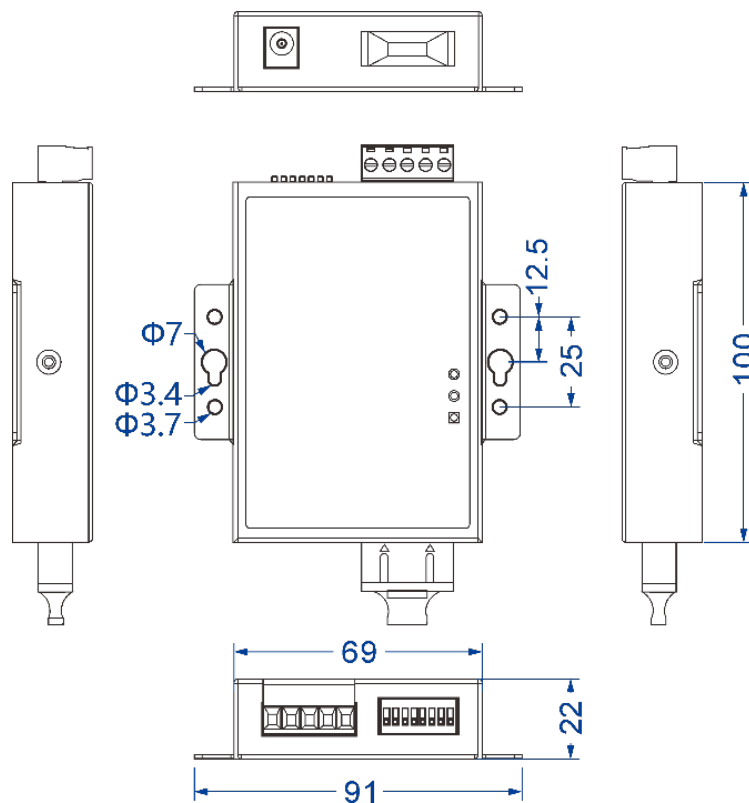
## Introduction

MC201-F is a CAN bus signal to optical signal converter. It's specially designed for solving problems like short transmission distance and electromagnetic interference during CAN bus transmission. It supports 1 CAN port to 1 fiber port transparent transmission and adopts wall mounting which can meet the requirements of different scenes.

DIP switch could implement baud rate setting of CAN port. Hardware adopts fanless, low power consumption, wide temperature and voltage design and has passed rigorous industrial standard tests, which can suit for the industrial scene environment with harsh requirements for EMC. It can be widely used in PLC control and management, building automation, healthcare automation system, measuring instrument and environment monitoring system, etc.

## Dimension

Unit:mm



## Specification

<p><b>Fiber Port</b></p>	<p>Interface form: SC/ST/FC</p> <p>Transmission distance:</p> <ul style="list-style-type: none"> <li>● multimode: 2km</li> <li>● single mode: 15km</li> </ul> <p>Optical cable:</p> <ul style="list-style-type: none"> <li>● multimode: 50/125<math>\mu</math>m or 62.5/125<math>\mu</math>m</li> <li>● single mode: 8.3/125<math>\mu</math>m、8.7/125<math>\mu</math>m、9/125<math>\mu</math>m or 10/125<math>\mu</math>m</li> </ul> <p>Transmission wavelength:</p> <ul style="list-style-type: none"> <li>● multimode: 1310nm</li> <li>● single mode: 1310nm or 1550nm</li> </ul>
<p><b>CAN Interface</b></p>	<p>Standard: CAN2.0A, CAN2.0B</p> <p>CAN signal: CANH, CANL, GND</p> <p>Duplex mode: 2-wire Half Duplex Mode</p> <p>Baud rate: 2.5kbps-1000kbps</p> <p>Load capacity: support concurrent transmitting of 110 nodes</p> <p>Transmission distance: 40m~10km</p> <p>Interface form: adopt 5-pin 5.08mm pitch terminal blocks</p> <p>Terminating resistor: optional external 120<math>\Omega</math> terminating resistor</p> <p>Interface protection: 2kVAC isolation protection</p>
<p><b>LED Indicator</b></p>	<p>Power supply indicator, fiber port/data indicator, CAN port indicator</p>
<p><b>Power Requirement</b></p>	<p>5VDC, DC round head</p>
<p><b>Power Consumption</b></p>	<p>No-load: 1.39W@5VDC</p> <p>Full-load: 1.31W@5VDC</p>
<p><b>Environmental Limit</b></p>	<p>Operating temperature: -40~75<math>^{\circ}</math>C</p> <p>Storage temperature:-40~85<math>^{\circ}</math>C</p> <p>Relative humidity: 5% ~ 95%(no condensation)</p>
<p><b>Physical Characteristic</b></p>	<p>Housing: IP40 protection, metal</p> <p>Installation: wall mounting</p> <p>Dimension (W x H x D): 69mm<math>\times</math>22mm<math>\times</math>100mm</p> <p>Weight: 237g</p>
<p><b>Industrial Standard</b></p>	<p>IEC 61000-4-2 (ESD, electrostatic discharge), Level 3</p> <ul style="list-style-type: none"> <li>● Air discharge: <math>\pm</math>8kV</li> <li>● Contact discharge: <math>\pm</math>6kV</li> </ul>

Shock: IEC 60068-2-27  
Free fall: IEC 60068-2-32  
Vibration: IEC 60068-2-6

Certification	CE, FCC, RoHS
Warranty	3 years



## Ordering Information

Part No	Article No/SKU	Description
MC201-F(SSC)	AT-MC201-F(SSC)	CAN to fiber converter,CAN 2KVAC isolation, 8KV ESD, single mode, SC/ST/FC, 15Km, 5VDC

ICP Alphatec  
Tel: +44 (0) 203 086 9569

[www.icpalphatec.com](http://www.icpalphatec.com)  
Email: [sales@icpalphatec.com](mailto:sales@icpalphatec.com)



Address: 3/B, Zone 1, Baiwangxin High Technology Industrial Park, Song Bai Road, Nanshan District, Shenzhen, 518108, China

TEL.: +86-755-26702668 ext 835 FAX: +86-755-26703485

E-mail: [ics@3onedata.com](mailto:ics@3onedata.com)

Website: [www.3onedata.com](http://www.3onedata.com)

◀ Please scan our QR code for more details

\*Product pictures and technical data in this datasheet are only for reference. Updates are subject to change without prior notice. The final interpretation right is reserved by 3onedata.