

# Product data sheet

Specifications



## communication module, Modicon X80, CANopen, master, hardened

BMECXM0100H

 To be discontinued on: Dec 1, 2027

 To be end-of-service on: Dec 31, 2035

 To be discontinued

**Product availability: Non-Stock - Not normally stocked in distribution facility**

### Main

|                           |                              |
|---------------------------|------------------------------|
| Range of Product          | Modicon X80                  |
| Product or Component Type | CANopen communication module |
| Structure type            | Open industrial fieldbus     |

### Complementary

|                             |                                                                                                                                                                                                                                                                                 |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Compatibility       | M580 PLC                                                                                                                                                                                                                                                                        |
| Physical interface          | DB9 connector                                                                                                                                                                                                                                                                   |
| Mode of Transmission        | NRZ                                                                                                                                                                                                                                                                             |
| Transmission support medium | Profibus DP twisted shielded pairs cable                                                                                                                                                                                                                                        |
| Transmission rate           | 9.6 kbit/s, 3937.008 ft (1200 m)<br>19.2 kbit/s, 3937.008 ft (1200 m)<br>93.75 kbit/s, 3937.008 ft (1200 m)<br>187.5 kbit/s, 3280.8 ft (1000 m)<br>500 kbit/s, 1312.3 ft (400 m)<br>1.5 Mbit/s, 656.2 ft (200 m)<br>3 Mbit/s, 328.08 ft (100 m)<br>12 Mbit/s, 328.08 ft (100 m) |
| Number of server device(s)  | 63                                                                                                                                                                                                                                                                              |
| Communication service       | Implicit exchange of process data - 20...70 °C                                                                                                                                                                                                                                  |
| Integrated connection type  | Profibus DP - 1 SUB-D 9-pin female Profibus DP                                                                                                                                                                                                                                  |
| [Us] rated supply voltage   | 24 V DC internal                                                                                                                                                                                                                                                                |
| Current consumption         | 70 mA                                                                                                                                                                                                                                                                           |
| Module format               | Standard                                                                                                                                                                                                                                                                        |

### Environment

|                                       |                                                                                                                 |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Ambient Air Temperature for Operation | -13...158 °F (-25...70 °C)                                                                                      |
| Ambient Air Temperature for Storage   | -49...185 °F (-45...85 °C)                                                                                      |
| Relative Humidity                     | 10...95 %                                                                                                       |
| Operating altitude                    | <= 6561.68 ft (2000 m)                                                                                          |
| Protective treatment                  | Conformal coating                                                                                               |
| Directives                            | 2014/35/EU - low voltage directive<br>2014/30/EU - electromagnetic compatibility<br>2014/34/EU - ATEX directive |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                              |                                                                                                                                                                                                                                                                                                                                                |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product certifications       | CE<br>UL<br>CSA<br>RCM<br>EAC<br>Merchant Navy<br>ATEX zone 2/22<br>IECEx zone 2/22                                                                                                                                                                                                                                                            |
| Standards                    | IEC 61131-2<br>IEC 61010-2-201<br>UL 61010-2-201<br>CSA C22.2 No 61010-2-201<br>IACS E10<br>IEC 61000-6-5, interface type 1 and type 2<br>IEC 61850-3, location G<br>IEC 60079-0                                                                                                                                                               |
| Environmental characteristic | Gas resistant class Gx ISA S71.04<br>Gas resistant class 3C4 IEC 60721-3-3<br>Dust resistant class 3S4 IEC 60721-3-3<br>Sand resistant class 3S4 IEC 60721-3-3<br>Salt resistant level 2 IEC 68252<br>Mold growth resistant class 3B2 IEC 60721-3-3<br>Fungal spore resistant class 3B2 IEC 60721-3-3<br>Hazardous location class I division 2 |

## Ordering and shipping details

|                   |               |
|-------------------|---------------|
| Category          | US1PC3418160  |
| Discount Schedule | PC34          |
| GTIN              | 3606485407159 |
| Returnability     | No            |
| Country of origin | CA            |

## Packing Units

|                              |                         |
|------------------------------|-------------------------|
| Unit Type of Package 1       | PCE                     |
| Nbr. of units in pkg.        | 1                       |
| Package 1 Height             | 2.165 in (5.500 cm)     |
| Package 1 Width              | 4.449 in (11.300 cm)    |
| Package 1 Length             | 4.646 in (11.800 cm)    |
| Package weight(Lbs)          | 6.843 oz (194.000 g)    |
| Unit Type of Package 2       | S02                     |
| Number of Units in Package 2 | 15                      |
| Package 2 Height             | 5.906 in (15.000 cm)    |
| Package 2 Width              | 11.811 in (30.000 cm)   |
| Package 2 Length             | 15.748 in (40.000 cm)   |
| Package 2 Weight             | 7.130 lb(US) (3.234 kg) |

## Contractual warranty

|                      |    |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



### Environmental footprint

|                                                        |                                               |
|--------------------------------------------------------|-----------------------------------------------|
| Total lifecycle Carbon footprint                       | 121 kg CO2 eq.                                |
| Carbon footprint of the manufacturing phase [A1 to A3] | 13 kg CO2 eq.                                 |
| Carbon footprint of the distribution phase [A4]        | 0 kg CO2 eq.                                  |
| Carbon footprint of the installation phase [A5]        | 0.1 kg CO2 eq.                                |
| Carbon footprint of the use phase [B2, B3, B4, B6]     | 107 kg CO2 eq.                                |
| Carbon footprint of the end-of-life phase [C1 to C4]   | 0.3 kg CO2 eq.                                |
| Environmental Disclosure                               | <a href="#">Product Environmental Profile</a> |

## Use Better



### Materials and Substances

|                                        |                                                                                                                                                                                                                                                                                             |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Packaging made with recycled cardboard | Yes                                                                                                                                                                                                                                                                                         |
| Packaging without single use plastic   | Yes                                                                                                                                                                                                                                                                                         |
| EU RoHS Directive                      | <a href="#">Compliant By Exemption</a>                                                                                                                                                                                                                                                      |
| REACH Regulation                       | <a href="#">Free of Substances of Very High Concern above the threshold</a>                                                                                                                                                                                                                 |
| California proposition 65              | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |

## Use Longer



### Lifetime extension

|        |    |
|--------|----|
| Repair | No |
|--------|----|

## Use Again



### Repack and remanufacture

|                               |                                         |
|-------------------------------|-----------------------------------------|
| Recyclability potential, in % | 32                                      |
| Circularity Profile           | <a href="#">End of Life Information</a> |
| Take-back                     | No                                      |

Image of product / Alternate images

Alternative

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