Product data sheet

Specifications

multifunction input module, Modicon X80, 16 I, 24/24-125V DC

BMXERT1604T

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

Main

Range of Product	Modicon X80
Product or Component Type	Multifunction input module

Complementary

Function Available	Hot swap
Data recording	1 ms time stamps
Time synchronisation protocol	DCF77 IRIG-B
Group of channels	4 groups of 4 inputs process input
[Us] rated supply voltage	24 V DC 19...30 V) 48...60 V DC 38...75 V) 110...125 V DC 88...156 V)
Switching voltage	125 V 1.3 mA process input 110 V 1.3 mA process input 60 V 2.5 mA process input 48 V 2.5 mA process input 24 V 6.7 mA process input
Maximum power consumption in W	4 W process input
Current consumption	30 mA 24 V DC 130 mA 3.3 V DC
Isolation voltage	2500 V DC 60 s bus to discrete input 1400 V DC 60 s bus to IRIG/DCF 2500 V DC 60 s discrete input to IRIG/DCF
Anti bounce filtering	Configurable from 0 to 255 ms
Sampling duration	0.5 ms
Acquisition time	1 ms
Local signalling	1 LED (green) for firmware and module run (RUN) 1 LED (green) for status of time code input (T) 1 LED (red) for module fault (ERR) 1 LED (red) for power supply interruption (I/O) 16 LEDs for input status (0...15)
Width	1.3 in (32 mm)
Height	3.9 in (100 mm)
Depth	3.4 in (86 mm)

Environment

Ambient air temperature for operation	-13…158 °F (-25…70 °C)
Ambient Air Temperature for Storage	-40…185 °F (-40…85 °C)

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

Relative Humidity	95 % without condensation
Operating altitude	<= 13123.36 ft (4000 m)
Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility
Product Certifications	CE RCM CSA EAC Merchant Navy UL
Standards	EN/IEC 61010-2-201 EN/IEC 61131-2 UL 61010-2-201 CSA C22.2 No 61010-2-201
Environmental characteristic	Gas resistant class Gx Gas resistant class 3C4 Dust resistant class 3S4 Sand resistant class 3S4 Salt resistant level 2 Mold growth resistant class 3B2 Fungal spore resistant class 3B2

Ordering and shipping details

Category	US1PC3418160
Discount Schedule	PC34
GTIN	3595864146232
Returnability	No
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.17 in (5.500 cm)
Package 1 Width	4.33 in (11.000 cm)
Package 1 Length	4.61 in (11.700 cm)
Package weight(Lbs)	5.291 oz (150.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	5.91 in (15.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	5.732 lb(US) (2.600 kg)

Contractual warranty

Warranty	18 months

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

Carbon footprint (kg CO2 eq, Total Life cycle)	**79**
Environmental Disclosure	**Product Environmental Profile**

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**Yes**
EU RoHS Directive	**Pro-active compliance (Product out of EU RoHS legal scope)**
REACh Regulation	**REACh Declaration**
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 www.P65Warnings.ca.gov**

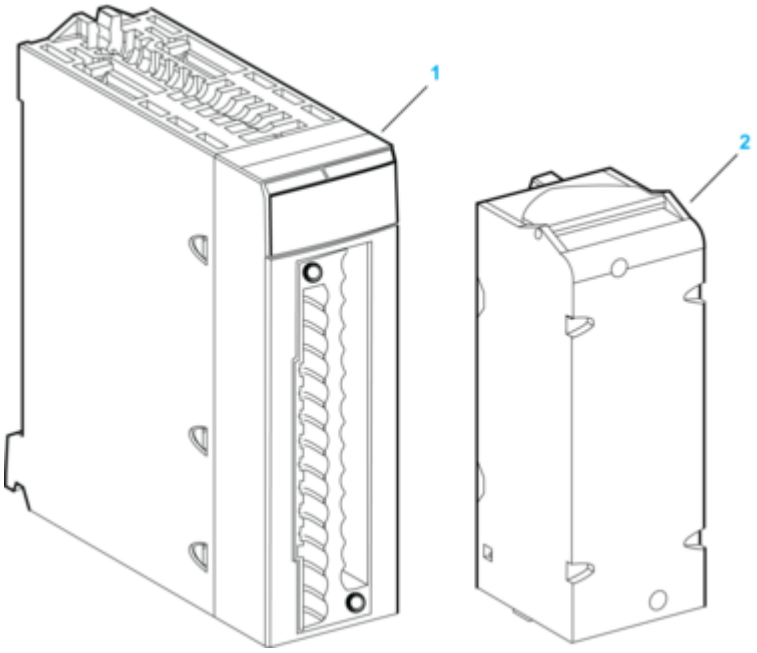
Use Again

Repack and remanufacture

Circularity Profile	**End of Life Information**
Take-back	**No**

Presentation

Presentation

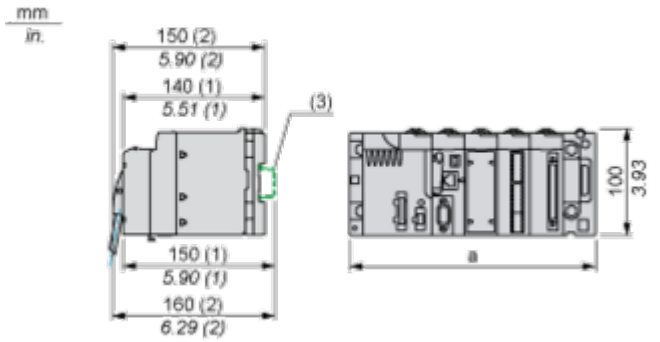


1 : Module
2 : 28-pin removable terminal block (provided separately)

Dimensions Drawings

Modules Mounted on Racks

Dimensions

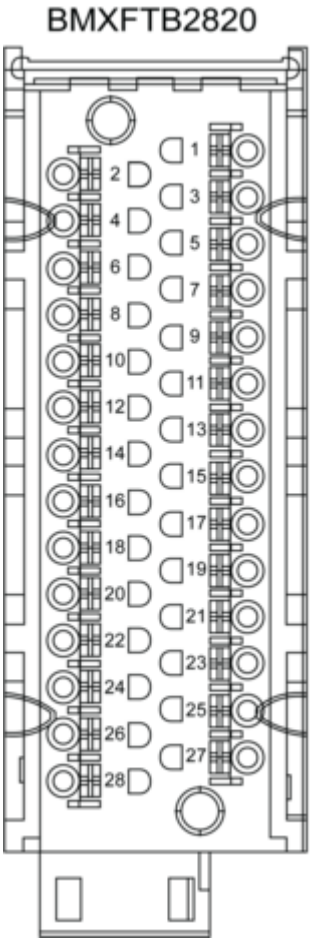


(1) With removable terminal block (cage, screw or spring).
(2) With FCN connector.
(3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

Rack references	a in mm	a in in.
BMXXBP0400 and BMXXBP0400H	242.4	09.54
BMXXBP0600 and BMXXBP0600H	307.6	12.11
BMXXBP0800 and BMXXBP0800H	372.8	14.68
BMXXBP1200 and BMXXBP1200H	503.2	19.81

Connections and Schema

Wiring Diagram



Definition	Pin Number		Definition
DCF_IN	2	1	IRIG+
DCF_COM	4	3	IRIG-
Not Connected	6	5	Not Connected
I1	8	7	I0
I3	10	9	I2
I5	12	11	I4
I7	14	13	I6
I9	16	15	I8
I11	18	17	I10
I13	20	19	I12
I15	22	21	I14

Definition	Pin Number		Definition
Not Connected	24	23	Not Connected
UB+	26	25	0 Vdc
UB+	28	27	0 Vdc

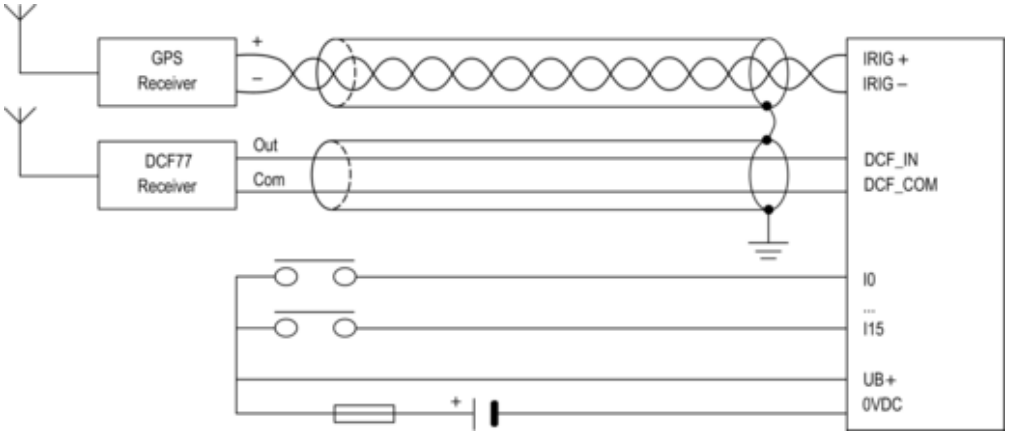
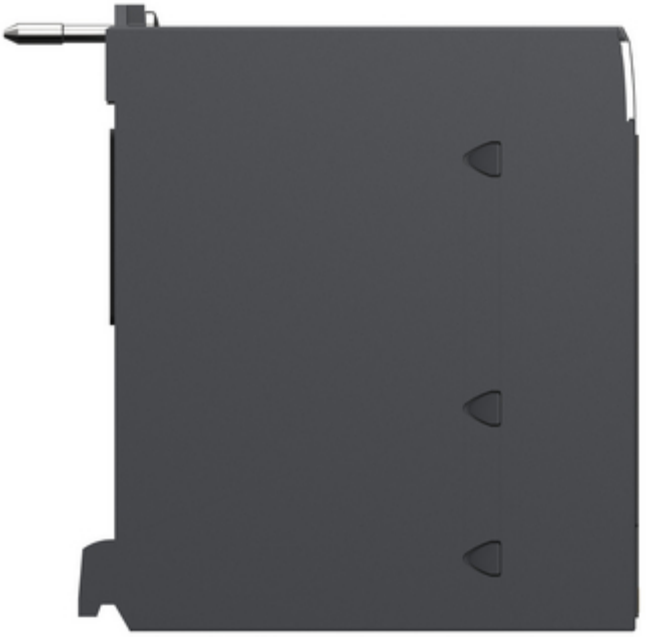


Image of product / Alternate images

Alternative

Schneider
Electric
Modicon
BMXERT1604T
DIG 16I 24/125VDC TSTAMP
DOM : XXXX



SN:XXXXXXXXXXX
PV:XX SV:XX RL:XX