BMXP341000  
processor module M340 - max 512 discrete + 128 analog I/O - Modbus

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### Main

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range of product</td>
<td>Modicon M340 automation platform</td>
</tr>
<tr>
<td>Product or component type</td>
<td>Processor module</td>
</tr>
<tr>
<td>Number of racks</td>
<td>2</td>
</tr>
<tr>
<td>Number of slots</td>
<td>11</td>
</tr>
<tr>
<td>Discrete I/O processor capacity</td>
<td>512 I/O single-rack configuration</td>
</tr>
<tr>
<td>Analogue I/O processor capacity</td>
<td>66 I/O single-rack configuration</td>
</tr>
<tr>
<td></td>
<td>128 I/O multi-rack configuration</td>
</tr>
<tr>
<td>Number of application specific channel</td>
<td>20</td>
</tr>
<tr>
<td>Monitoring</td>
<td>Diagnostic counters Modbus</td>
</tr>
<tr>
<td></td>
<td>Event counters Modbus</td>
</tr>
</tbody>
</table>

### Complementary

<table>
<thead>
<tr>
<th>Control channels</th>
<th>Programmable loops</th>
</tr>
</thead>
<tbody>
<tr>
<td>Integrated connection type</td>
<td>Non isolated serial link RJ45 character mode, transmission mode: asynchronous in baseband, RS232C, transmission mode: 2 twisted shielded pairs at 0.3...19.2 kbit/s full duplex  Non isolated serial link RJ45 character mode, transmission mode: asynchronous in baseband, RS485, transmission mode: 1 twisted shielded pair at 0.3...19.2 kbit/s half duplex  Non isolated serial link RJ45, master/slave Modbus, RTU/ASCII, transmission mode: asynchronous in baseband, RS232C, transmission mode: 1 twisted shielded pair at 0.3...19.2 kbit/s half duplex  Non isolated serial link RJ45, master/slave Modbus, RTU/ASCII, transmission mode: asynchronous in baseband, RS485, transmission mode: 1 twisted shielded pair at 0.3...19.2 kbit/s half duplex  USB port at 12 MBit/s</td>
</tr>
</tbody>
</table>

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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.
| **Maximum tap links length** | 0…15 m Modbus point-to-point  
<15 m serial link non isolated character mode segment  
<15 m serial link non isolated Modbus segment  
<40 m serial link isolated character mode segment  
<40 m serial link isolated Modbus segment |
| **Number of addresses** | 0…248 for character mode  
0…248 for Modbus |
| **Requests** | 1 K data bytes per request character mode  
252 data bytes per RTU request Modbus  
504 data bytes per ASCII request Modbus |
| **Control parameter** | One CRC on each frame (RTU) Modbus  
One LRC on each frame (ASCII) character mode  
One LRC on each frame (ASCII) Modbus |
| **Memory description** | Internal RAM 2048 kB  
Internal RAM 128 kB data  
Internal RAM 1792 kB program constants and symbols  
Supplied memory card (BMXRMS008MP) backup of programs, constants, symbols and data |
| **Maximum size of object areas** | 128 kB unlocated internal data  
16250 %Mi located internal bits  
32464 %MWi internal words located internal data  
32760 %KWi constant words located internal data |
| **Default size of object areas** | 128 %KWi constant words located internal data  
256 %Mi located internal bits  
512 %MWi internal words located internal data |
| **Application structure** | 1 periodic fast task  
32 event tasks  
1 cyclic/periodic master task  
No auxiliary task |
| **Execution time per instruction** | 0.18 µs Boolean  
0.26 µs double-length words  
0.38 µs single-length words  
1.74 µs floating points |
| **Number of instructions per ms** | 4.2 Kinst/ms 65 % Boolean + 35 % fixed arithmetic  
5.4 Kinst/ms 100 % Boolean |
| **System overhead** | 0.2 ms for fast task  
1.05 ms for master task |
| **Current consumption** | 72 mA at 24 V DC |
| **Supply** | Internal power supply via rack |
| **Marking** | CE |
| **Status LED** | 1 LED (green) processor running (RUN):  
1 LED (red) I/O module fault (I/O):  
1 LED (red) memory card fault (CARD ERR):  
1 LED (red) processor or system fault (ERR):  
1 LED (yellow) activity on Modbus (SER COM): |
| **Net weight** | 0.2 kg |

**Environment**

| **Ambient air temperature for operation** | 0…60 °C |
| **Relative humidity** | 10…95 % without condensation |
| **IP degree of protection** | IP20 |
| **Protective treatment** | TC |
| **Directives** | 2014/35/EU - low voltage directive  
2014/30/EU - electromagnetic compatibility  
2012/19/EU - WEEE directive |
| **Standards** | EN 61131-2  
EN 61000-6-4  
EN 61000-6-2  
EN 61010-2-201 |

**Offer Sustainability**

<p>| <strong>Sustainable offer status</strong> | Green Premium product |
| <strong>REACH Regulation</strong> | REACH Declaration |</p>
<table>
<thead>
<tr>
<th>EU RoHS Directive</th>
<th>Pro-active compliance (Product out of EU RoHS legal scope)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercury free</td>
<td>Yes</td>
</tr>
<tr>
<td>RoHS exemption information</td>
<td>Yes</td>
</tr>
<tr>
<td>China RoHS Regulation</td>
<td>China RoHS declaration</td>
</tr>
<tr>
<td>Environmental Disclosure</td>
<td>Product Environmental Profile</td>
</tr>
<tr>
<td>Circularity Profile</td>
<td>End of Life Information</td>
</tr>
<tr>
<td>WEEE</td>
<td>The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins</td>
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</table>

**Contractual warranty**

| Warranty | 18 months |
Modules Mounted on Racks

Dimensions

With removable terminal block (cage, screw or spring).

With FCN connector.

On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

<table>
<thead>
<tr>
<th>Rack references</th>
<th>a in mm</th>
<th>a in in.</th>
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<tbody>
<tr>
<td>BMXXBP0400 and BMXXBP0400H</td>
<td>242.4</td>
<td>09.54</td>
</tr>
<tr>
<td>BMXXBP0600 and BMXXBP0600H</td>
<td>307.6</td>
<td>12.11</td>
</tr>
<tr>
<td>BMXXBP0800 and BMXXBP0800H</td>
<td>372.8</td>
<td>14.68</td>
</tr>
<tr>
<td>BMXXBP1200 and BMXXBP1200H</td>
<td>503.2</td>
<td>19.81</td>
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