

# BMX Module Variants

**Embedded Measurement  
and Control Platform**



**BMX -05**

**BMX -10**

**BMX-20**

**BMX-30**

**BMX-SE**

- **Mobile and Wireless Communication**
  - **Analog, Digital Interfaces & Bus IO**
    - **Programmable with LabVIEW™ 2011**



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## Functions

The following table shows the different options available for a specific BMX board type.

#	Function	◦ = Option not available ● = Option available					
	Board Version	BMX-SE <sup>1</sup>	BMX-05	BMX-10	BMX-20	BMX-30	BMX-50
1.0	<i>Mechanical</i>						
1.1	<b>Industrial Connectors</b>	◦	●	●	●	●	●
2.0	<i>Analog</i>						
2.1	<b>Voltage Input 16Bit ±5V, ±10V</b>	8	7/8	7/8	7/8	7/8	7/8
2.2	<b>Current Input 16Bit 0..20mA</b>	◦	4	4	4	4	4
2.3	<b>Voltage Output 16Bit ±5V, ±10V</b>	4	4	4	4	4	4
3.0	<i>Digital IO</i>						
3.1	<b>Isolated Digital out 0-24V Sourcing or Sinking</b>		8	8	8	8	8
3.2	<b>Isolated Digital in 3-24V</b>		8	8	8	8	8
3.3	<b>High Volt Relay 250V/6A (SPDT)</b>	2	2	2	2	2	2
3.4	<b>TTL IO-Connector</b>	◦	◦	●	●	●	●
4.0	<i>Serial IO</i>						
4.1	<b>RS232 Serial Ports</b>	2(1)	2	2(1)	2	2	2
4.2	<b>RS485 Serial Ports</b>	◦	◦	2	2	2	2
4.3	<b>K-Line</b>	◦	◦	◦	1	1	1
5.0	<i>Bus IO</i>						
5.1	<b>CAN Bus</b>	◦	◦	2	2	2	2
5.2	<b>LIN Bus</b>	◦	◦	◦	1	1	1
6.0	<i>Geo-Location and Timing</i>						
6.1	<b>GPS Receiver</b>	●	◦	●	●	●	●
6.2	<b>Active GPS Antenna Supply</b>	●	◦	●	●	●	●
6.3	<b>PPS Pulse Output</b>	◦	◦	●	●	●	●
6.4	<b>NTP Time Service</b>	◦	◦	◦	◦	◦	●
7.0	<i>Communication</i>						
7.1	<b>Independent Communication Controller</b>	◦	◦	◦	●	●	●
7.2	<b>WLAN 802.11 a,b,g,n</b>	◦	◦	◦	◦	●	●
7.3	<b>VPN Access</b>	◦	◦	◦	◦	◦	●
7.4	<b>Remote Access for Data/Software</b>	◦	◦	◦	◦	◦	●
7.5	<b>GSM/3G/UMTS/GPRS</b>	◦	◦	◦	●	◦	●
8.0	<i>Miscellaneous</i>						
8.1	<b>On Board Digital Temperature Sensor</b>	◦	◦	●	●	●	●
8.2	<b>Digital Precision Temperature Sensor Input</b>	◦	◦	4	4	4	4

Table 1 BMX platform configurations

◦ = Option not available ● = Option installed

Information is subject to change without notice.

