

# BX-HSIO4 Cut Sheet



BRX pulse combo module, 2 MHz maximum switching frequency, 8 high-speed input point(s), sinking/sourcing/TTL, differential and single-ended encoder input(s), 8 high-speed output point(s), sinking/sourcing/TTL, differential and single-ended output(s).

For complete product information, please see this item on our store at the following link:



<https://www.automationdirect.com/pn/BX-HSIO4>

## Technical Specifications

<b>Brand</b>	BRX
<b>Item</b>	Combo module
<b>I/O Module Type</b>	Pulse
<b>Maximum Switching Frequency</b>	2 MHz
<b>Number of High-Speed Capable Input Points</b>	8
<b>Nominal Input Voltage</b>	2-5 VDC
<b>Discrete Input Type</b>	Sinking/sourcing/TTL
<b>Number of Non-Isolated Input Commons</b>	2
<b>Number of Isolated Input Commons</b>	2
<b>Number of Input Channels</b>	8
<b>Encoder Input Type</b>	<ul style="list-style-type: none"><li>• line receiver (differential)</li><li>• push-pull (totem)</li></ul>
<b>Number of High-Speed Capable Output Points</b>	8
<b>Nominal Output Voltage</b>	2-5 VDC
<b>Discrete Output Type</b>	Sinking/sourcing/TTL
<b>Number of Non-Isolated Output Commons</b>	2
<b>Number of Isolated Output Commons</b>	2
<b>Load Current</b>	20 mA/point
<b>Number of Output Channels</b>	8
<b>Pulse Output Channel Type</b>	<ul style="list-style-type: none"><li>• differential</li><li>• NPN open collector</li><li>• PNP open collector</li><li>• push-pull (totem)</li></ul>
<b>High-Speed Counter(s)</b>	<ul style="list-style-type: none"><li>• up to (4) up counters</li><li>• up to (4) down counters</li><li>• up to (4) up/down counters</li><li>• up to (4) pulse/direction (bi-directional) counters</li><li>• up to (4) quadrature (A and B) counters</li><li>• up to (4) quadrature (A and B with Z) counters</li></ul>

<b>Position Scaling</b>	<ul style="list-style-type: none"><li>• up to (4) up counters</li><li>• up to (4) down counters</li><li>• up to (4) up/down counters</li><li>• up to (4) pulse/direction (bi-directional) counters</li><li>• up to (4) quadrature (A and B) counters</li><li>• up to (4) quadrature (A and B with Z) counters</li></ul>
<b>Interval Measurement</b>	<ul style="list-style-type: none"><li>• up to (4) single input (edge) timers</li><li>• up to (4) dual input (dual edge) timers</li></ul>
<b>Duration Measurement</b>	up to (4) single input (edge) timers
<b>Frequency Measurement</b>	<ul style="list-style-type: none"><li>• up to (4) single input up counters</li><li>• up to (4) single input down counters</li><li>• up to (4) pulse/direction (bi-directional) counters</li><li>• up to (4) quadrature input (A and B) counters</li><li>• up to (4) quadrature (A and B with Z) counters</li><li>• up to (4) edge timers interval scaling</li><li>• up to (4) dual edge timers interval scaling</li></ul>
<b>Interrupt(s)</b>	<ul style="list-style-type: none"><li>• up to (4) input interrupts</li><li>• up to (4) timer interrupts</li><li>• up to (4) match register interrupts</li></ul>
<b>Table-Driven Input(s)</b>	<ul style="list-style-type: none"><li>• up to (4) programmable limit switches</li><li>• up to (4) preset tables</li></ul>
<b>Output Pulse Mode(s)</b>	<ul style="list-style-type: none"><li>• up to (4) virtual axes</li><li>• up to (3) PTO linear step/direction outputs</li><li>• up to (3) PTO rotary clockwise/counter-clockwise (CW/CCW) outputs</li><li>• up to (3) PTO quadrature (A and B) outputs</li><li>• up to (4) PWM pulse width modulation outputs</li></ul>
<b>Axis Profile(s)</b>	<ul style="list-style-type: none"><li>• relative/absolute positioning</li><li>• velocity mode</li><li>• trapezoid</li><li>• jerk</li><li>• registration</li><li>• homing</li><li>• jogging</li><li>• electronic gearing</li><li>• camming</li><li>• linear mode</li><li>• rotary mode</li><li>• motion sequence</li></ul>
<b>Requires</b>	ZIPLink connector modules and pre-wired cables
<b>Programming Software</b>	Do-more Designer programming software v2.8 or later

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## Agency Approvals

<b>UL Listed File #</b>	E185989
<b>UL Recognized File #</b>	None
<b>UL Hazardous File #</b>	None
<b>CE</b>	<a href="#">View CE declarations</a>
<b>CSA File #</b>	None
<b>RoHS Status</b>	Yes (See CE Doc)
<b>EU REACH</b>	<a href="#">View EU REACH document</a>

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## Dimensional Drawings



2D Drawing PDF Link:  
<https://cdn.automationdirect.com/static/drawings/BX-HSIO4.pdf>  
See store item page for other formats.

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