

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

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

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| Position Scaling | up to (4) up counters, up to (4) down counters, up to (4) up/down counters, up to (4) pulse/direction (bi-directional) counters, up to (4) quadrature (A and B) counters, up to (4) quadrature (A and B with Z) counters |
| Interval Measurement | up to (4) single input (edge) timers, up to (4) dual input (dual edge) timers |
| Duration Measurement | up to (4) single input (edge) timers |
| Frequency Measurement | up to (4) single input up counters, up to (4) single input down counters, up to (4) pulse/direction (bi-directional) counters, up to (4) quadrature input (A and B) counters, up to (4) quadrature (A and B with Z) counters, up to (4) edge timers interval scaling, up to (4) dual edge timers interval scaling |
| Interrupt(s) | up to (4) input interrupts, up to (4) timer interrupts, up to (4) match register interrupts |
| Table-Driven Input(s) | up to (4) programmable limit switches, up to (4) preset tables |
| Output Pulse Mode(s) | up to (4) virtual axes, up to (3) PTO linear step/direction outputs, up to (3) PTO rotary clockwise/counter-clockwise (CW/CCW) outputs, up to (3) PTO quadrature (A and B) outputs, up to (4) PWM pulse width modulation outputs |
| Axis Profile(s) | relative/absolute positioning, velocity mode, trapezoid, jerk, registration, homing, jogging, electronic gearing, camming, linear mode, rotary mode, motion sequence |
| Requires | ZIPLink connector modules and pre-wired cables |

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| Programming Software | Do-more Designer programming software v2.8 or later |
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Agency Approvals

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| UL Listed File # | E185989 |
| UL Recognized File # | None |
| UL Hazardous File # | None |
| CE | View CE declarations |
| CSA File # | None |
| RoHS Status | Yes (See CE Doc) |
| EU REACH | View EU REACH document |