

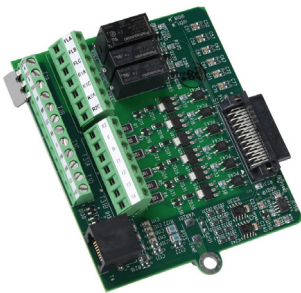
## Optional I/O Cards

Three option cards are available for the Toshiba AS3 drive series.

- The AS3-ACI module replaces the standard 24VDC inputs with 120VAC digital inputs
- The VEC008Z line driver encoder module
- The IPE003Z EtherCAT communications module

The Toshiba AS3 drive supports installation of up to three modules at a time. Please see the AS3 Instruction Manual for details.

| Toshiba AS3 Drives I/O and Communication Cards |          |                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |           |
|------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------|
| Part Number                                    | Price    | Description                                                                                                                                                                                                                                     | Features/Specifications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Placement*        | AS3 Drive |
| <b><u>AS3-ACI</u></b>                          | \$230.00 | Toshiba AS3 series relay/analog combo module, Analog Input: 3-channel, current/voltage, Analog Output: 2-channel, current/voltage, Discrete Input: 6-point, Discrete Output: 3-point, relay, (1) Form C (SPDT) relay, (2) Form A (SPST) relays. | Replaces the standard terminal board that comes with the AS3 drive. <ul style="list-style-type: none"> <li>• Relay/analog combo module</li> <li>• Input: 3-channel, current/voltage</li> <li>• Analog output: 2-channel, current/voltage</li> <li>• 120VAC Discrete input: 6-point</li> <li>• Discrete output: 3-point relay</li> </ul>                                                                                                                                                                                         | PCB replacement   | All       |
| <b><u>VEC008Z</u></b>                          | \$132.00 | Toshiba AS3 series encoder module, line driver (differential) encoder input. For use with Toshiba AS3 series AC drives. Requires 15-pin D-sub HD15 male connector (sold separately).                                                            | Provides PG feedback for differential line driver output type encoders. <ul style="list-style-type: none"> <li>• Pulse frequency: 300kHz or less (duty: 50% ±10%)</li> <li>• Power supply voltage: Pin3 (24V), Pin7 (12V), Pin15 (5V)</li> <li>• Maximum load of power supply: Pin3 (24V)-100mA, Pin7 (12V)-100mA, Pin15 (5V)-250mA</li> <li>• Connector: D subminiature connector (DE-15/HD15)</li> <li>• Recommended cable: 100m or less multi-layer shielded cable, AWG26 for signal line, AWG20 for power supply</li> </ul> | AS3 drive, Slot B | All       |
| <b><u>IPE003Z</u></b>                          | \$394.00 | Toshiba communication module, EtherCAT CoE protocol, 2 ports, (2) Ethernet (RJ45) port(s). For use with Toshiba AS3 series AC drives.                                                                                                           | Enables EtherCAT communications for the AS3 drive. Drive is controlled by two profiles (CiA402 V3 or TOSHIBA). Also supports BECKHOFF software TwinCAT V2.x. <ul style="list-style-type: none"> <li>• Connector: RJ45 x 2</li> <li>• Supports CoE protocol only</li> <li>• Baud rate: 100Mbps</li> <li>• Command reception time: 5ms</li> <li>• 4 communication status LEDs and 2 link status LEDs</li> </ul>                                                                                                                   | AS3 drive, Slot A | All       |

**AS3-ACI****VEC008Z****IPE003Z**