



## Options V1000 Drive

**DeviceNet™ With ADR.** This option complies with all pertinent aspects of the ODVA (Open DeviceNet Vendor Association) specification and AC drive profile. All parameters, diagnostics and operational commands are accessible via DeviceNet. Automatic Device Replacement (ADR) is supported in this DeviceNet option, including the functions of Auto Baud Rate sensing and Faulted Node Recovery (using Group 4 messaging). Each DeviceNet network supports up to 63 drives. Controllers are available from many PLC and/or PC suppliers. The board mounts integrally in the drive and provides a DeviceNet standard open tap connector. The option is configured using parameters within the drive, which allows for easy configuration eliminating the use of hardware switches. Status LEDs are viewable through the front cover and a monitor has been added to allow for improved diagnostics.

**Note:** This option requires the V1000 drive to contain 1012 software or later; please consult your Yaskawa representative to ensure proper operation.

*Mounts at option connector CN5.*

**Model No. SI-N3/V**

**EtherNet/IP.** This option complies with the EtherNet/IP protocol specification, and allows for communication over 10/100 Mbps Ethernet networks. This option has the ability to configure the IP Address from a user specified IP address, from a DHCP host, or from a BootP host. The IP address can be set from the drive keypad or from the network. All parameters, diagnostics and operational commands are accessible via EtherNet/IP. The web interface allows management of diagnostic information through a standard web browser. The embedded web pages include the main page, drive status page, network monitor page, and documentation page.

**Note:** This option requires the V1000 drive to contain 1012 software or later; please consult your Yaskawa representative to ensure proper operation.

*Mounts at option connector CN5.*

**Model No. SI-EN3/V**

**PROFINET.** This option complies to PROFINET I/O device and PROFIDrive profile specifications. It allows connection of a PROFINET network and facilitates the exchange of data via a simple, networking solution that reduces the cost and time to wire and install factory automation devices, while providing interchangeability of like components from multiple vendors. This is a PROFINET Conformance Class A certified interface.

This interface makes it possible to perform the following from a PROFINET master device:

- Operate the drive
- Monitor the operation status of the drive
- Change parameter settings

**Note:** This option requires the V1000 to contain 1012 software or later; please consult your Yaskawa representative to ensure proper operation.

*Mounts at option connector CN5.*

**Model No. SI-EP3/V**

**Profibus DP.** This option complies with the Profibus DP protocol specification. All parameters, diagnostics and operational commands are accessible via Profibus. The option board provides a 9-pin (F) type D-Sub connector for easily connecting to a standard Profibus style, shielded twisted-pair cable. Each Profibus network supports up to 99 drives. This option supports all of the Profibus data rates from 9.6 Kbps to 12 Mbps. Up to 32 bytes of input data and 32 bytes of output data are provided per message transaction. Sync and Freeze modes are supported for groups. Profibus DP-V1 support (cyclic and acyclic data exchange). Configurable PPO read and write parameters. The option is configured using parameters within the drive, which allows for easy configuration eliminating the use of hardware switches. Status LEDs are viewable through the front cover, and a monitor has been added to allow for improved diagnostics. Option is backwards compatible with the previous generation option cards.

**Note:** This option requires the V1000 drive to contain 1010 software or later; please consult your Yaskawa representative to ensure proper operation.

*Mounts at option connector CN5.*

**Model No. SI-P3/V**

**Modbus TCP/IP.** This option complies with the Modbus TCP/IP protocol specification. This allows for Modbus communication over 10/100 Mbps Ethernet networks. This option has the ability to configure the IP Address from a user-specified IP address, from a DHCP host, or from a BootP host. All parameters, diagnostics and operational commands are accessible via Modbus TCP/IP. This option supports up to 10 simultaneous PLC/PC connections.

**Note:** This option requires the V1000 drive to contain 1015 software or later; please consult your Yaskawa representative to ensure proper operation.

*Mounts at option connector CN5.*

**Model No. SI-EM3/V**

**MECHATROLINK-II.** This option is designed for connecting a drive to a field network using the MECHATROLINK protocol. The MECHATROLINK-II option allows the user to operate the drive, monitor the status, and change parameters from a MECHATROLINK master device at a communication speed up to 10 Mbps.

**Note:** This option requires the V1000 drive to contain 1016 software or later; please consult your Yaskawa representative to ensure proper operation.

*Mounts at option connector CN5.*

**Model No. SI-T3/V**



## Options

### V1000-4X Drive

**DeviceNet™ With ADR.** This option complies with all pertinent aspects of the ODVA (Open DeviceNet Vendor Association) specification and AC drive profile. All parameters, diagnostics and operational commands are accessible via DeviceNet. Automatic Device Replacement (ADR) is supported in this DeviceNet option, including the functions of Auto Baud Rate sensing and Faulted Node Recovery (using Group 4 messaging). Each DeviceNet network supports up to 63 drives. Controllers are available from many PLC and/or PC suppliers. The board mounts integrally in the drive and provides a DeviceNet standard open tap connector. The option is configured using parameters within the drive, which allows for easy configuration eliminating the use of hardware switches. Status LEDs are viewable through the front cover and a monitor has been added to allow for improved diagnostics.

**Note:** This option requires the V1000 drive to contain 1012 software or later; please consult your Yaskawa representative to ensure proper operation.

**Model No. SI-N3/V**

**EtherNet/IP.** This option complies with the EtherNet/IP protocol specification, and allows for communication over 10/100 Mbps Ethernet networks. This option has the ability to configure the IP Address from a user specified IP address, from a DHCP host, or from a BootP host. The IP address can be set from the drive keypad or from the network. All parameters, diagnostics and operational commands are accessible via EtherNet/IP. The web interface allows management of diagnostic information through a standard web browser. The embedded web pages include the main page, drive status page, network monitor page, and documentation page.

**Note:** This option requires the V1000 drive to contain 1012 software or later; please consult your Yaskawa representative to ensure proper operation.

**Model No. SI-EN3/V**

**Profibus DP.** This option complies with the Profibus DP protocol specification. All parameters, diagnostics and operational commands are accessible via Profibus. The option board provides a 9-pin (F) type D-Sub connector for easily connecting to a standard Profibus style, shielded twisted-pair cable. Each Profibus network supports up to 99 drives. This option supports all of the Profibus data rates from 9.6 Kbps to 12 Mbps. Up to 32 bytes of input data and 32 bytes of output data are provided per message transaction. Sync and Freeze modes are supported for groups. Profibus DP-V1 support (cyclic and acyclic data exchange). Configurable PPO read and write parameters. The option is configured using parameters within the drive, which allows for easy configuration eliminating the use of hardware switches. Status LEDs are viewable through the front cover, and a monitor has been added to allow for improved diagnostics. Option is backwards compatible with the previous generation option cards.

**Note:** This option requires the V1000 drive to contain 1010 software or later; please consult your Yaskawa representative to ensure proper operation.

**Model No. SI-P3/V**

**Modbus TCP/IP.** This option complies with the Modbus TCP/IP protocol specification. This allows for Modbus communication over 10/100 Mbps Ethernet networks. This option has the ability to configure the IP Address from a user-specified IP address, from a DHCP host, or from a BootP host. All parameters, diagnostics and operational commands are accessible via Modbus TCP/IP. This option supports up to 10 simultaneous PLC/PC connections.

**Note:** This option requires the V1000 drive to contain 1015 software or later; please consult your Yaskawa representative to ensure proper operation.

**Mounts at option connector CN5.**

**Model No. SI-EM3/V**