



ASD-G9ETH Version Info

▶ 05.14.2018

Multiprotocol firmware

- V2.354 release
- Added support for new parameters (as requested by Toshiba).

PROFINET firmware

- V2.354 release
- Added support for new parameters (as requested by Toshiba).

User's manual version

- No new user's manual released at this time: current version remains 10639-2.352-000

▶ 05.25.2017

Multiprotocol firmware

- V2.353 release
- Added support for new parameters (as requested by Toshiba).

PROFINET firmware

- V2.353 release
- Added support for new parameters (as requested by Toshiba).

User's manual version

- No new user's manual released at this time: current version remains 10639-2.352-000

▶ 07.21.2015

Multiprotocol firmware

- V2.352 release
- Modbus TCP changes
 - Added option to enable and disable the connection timeout timer
- BACnet/IP changes
 - Internal memory improvements
- EtherNet/IP changes
 - Ignore socket address info items to improve compatibility during connection establishment
 - Fixed get attribute single of AC/DC assembly I/O data
- Web page changes
 - Changed XML TCP port to 843 to improve firewall and internet network compatibility



PROFINET firmware

- V2.352 release
- PROFINET changes
 - Updated PROFIdrive profile state machine transitions
- Web page changes
 - Changed XML TCP port to 843 to improve firewall and internet network compatibility

GSDML file

- GSDML-V2.0-ICC-ASD_G9ETH-20150210.xml
- Limited the lowest I/O cycle update time to 8ms
- Updated the maximum input, output, and total sizes to account for overhead data

User's manual version

- 10639-2.352-000

▶ **10.17.2014**

Multiprotocol firmware

- V2.350 release
- Delay network communication until all drive parameters are initially scanned

PROFINET firmware

- V2.350 release
- Delay network communication until all drive parameters are initially scanned

User's manual version

- No new user's manual released at this time: current version remains 10639-2.310-000

▶ **10.08.2014**

Multiprotocol firmware

- V2.340 release
- Added parameter F781 (as requested by Toshiba)

PROFINET firmware

- V2.340 release
- Added parameter F781 (as requested by Toshiba)

User's manual version

- No new user's manual released at this time: current version remains 10639-2.310-000



▶ **10.02.2014**

Multiprotocol firmware

- V2.330 release
- Improved handling and recycling of network resources
- Added support for new parameters (as requested by Toshiba)
- By default, enable the option to update both RAM and EEPROM (as requested by Toshiba)

PROFINET firmware

- V2.330 release
- Added support for new parameters (as requested by Toshiba)
- By default, enable the option to update both RAM and EEPROM (as requested by Toshiba)

User's manual version

- No new user's manual released at this time: current version remains 10639-2.310-000

▶ **05.30.2013**

Multiprotocol firmware

- V2.320 release.
- CSP changes
 - Added logical ASCII addressing for both Typed Read and Typed Write commands.
- Other changes
 - Modified the FTP server to improve Windows Explorer FTP compatibility.
 - Fixed a bug where some parameters were not displaying the correct value.
 - Internal enhancements for drive parameter data access.

PROFINET firmware

- V2.320 release.
- PROFINET changes
 - Modified the handling of modules after the PROFINET connection is terminated. The modification will improve the compatibility with the PROFINET controller on the subsequent connection.
- Other changes
 - Modified the FTP server to improve Windows Explorer FTP compatibility.
 - Fixed a bug where some parameters were not displaying the correct value.
 - Internal enhancements for drive parameter data access.

EtherNet/IP EDS file

- V2.1, file revision 1.1
- Added and updated all available connections.

User's manual version

- No new user's manual released at this time: current version remains 10639-2.310-000



▶ **10.19.2012**

Multiprotocol firmware

- No new multiprotocol firmware released at this time: current version remains at V2.310

PROFINET firmware

- No new PROFINET firmware released at this time: current version remains at V2.310

User's manual version

- 10639-2.310-000
- Minor documentation improvements

▶ **11.09.2011**

Multiprotocol firmware

- V2.310 release.
- **CRITICAL FIRMWARE UPDATE NOTE:** Review the V2.200 firmware release notes before updating to this firmware version.
- Other changes
 - Support P9 VLP parameters.

PROFINET firmware

- V2.310 release.
- **CRITICAL FIRMWARE UPDATE NOTE:** Review the V2.200 firmware release notes before updating to this firmware version.
- Other changes
 - Support P9 VLP parameters.

User's manual version

- No new user's manual released at this time: current version remains 10639-2.300-000

▶ **06.01.2011**

Multiprotocol firmware

- V2.300 release.
- **CRITICAL FIRMWARE UPDATE NOTE:** Review the V2.200 firmware release notes before updating to this firmware version.
- EtherNet/IP changes
 - Added class 1 I/O support for point-to-point (unicast) in the T→O direction.
 - Fixed ListServices response to correctly return the service string.
- BACnet/IP changes
 - Fixed invalid character set for Device Object character string properties.
- Other changes



- Fixed directed broadcasts when the subnet mask is set to a value other than 255.255.255.0.

PROFINET firmware

- V2.300 release.
- **CRITICAL FIRMWARE UPDATE NOTE:** Review the V2.200 firmware release notes before updating to this firmware version.
- PROFINET changes
 - Added support for timeout processing.
- Other changes
 - Fixed directed broadcasts when the subnet mask is set to a value other than 255.255.255.0.

EtherNet/IP EDS file

- V2.1
- Updated connection description to support point-to-point (unicast) in the T→O direction.

GSDML file

- GSDML-V2.0-ICC-ASD-G9ETH-20101104.xml
- Fixed XML schema version.

User's manual version

- 10639-2.300-000

▶ 07.24.2009

Multiprotocol firmware

- V2.200 release.
- **CRITICAL FIRMWARE UPDATE NOTE:** Note that the V2.200 multiprotocol firmware image name ("10610a_rom.bin") does not follow the firmware image filename conventions used with previous firmware updates (typically something like "10610a_eth_vXXXX_image.bin"). This name change for V2.200 is intentional: do not modify the filename prior to uploading it to the interface card. The reason for this is because V2.200 & future firmware releases require a one-time adjustment to internal memory locations, and the adjustment code (contained in this firmware release) will only be executed by the interface card when it receives this firmware file with the special filename "10610a_rom.bin". If you have any questions regarding this update process, please contact ICC technical support for assistance.
- Modbus TCP changes
 - Added optional supervisory timer
- BACnet/IP changes
 - Added support for "Reinitialize Device" service
 - Fixed an issue whereby the priority array entries for user-added objects (i.e. BACnet objects that are added by direct XML file editing) were not being properly initialized
- Web page changes
 - Fixed a bug whereby failed XML sockets were not being properly recycled. This could lead to a web browser session being unable to establish a successful XML socket connection until the interface card is rebooted.



- Added supervisory timer selection to Modbus tab
 - Added Dashboard tab
- Other changes
 - Fixed a bug which prevented the SMTP authentication from being deleted once settings have been entered.

PROFINET firmware

- V2.200 release
- **CRITICAL FIRMWARE UPDATE NOTE:** When migrating to V2.200 PROFINET firmware from a previous version of firmware, updating to V2.200 requires an additional intermediate step not typically necessary with version-to-version firmware updates. Prior to uploading the V2.200 PROFINET image (with filename “10610a_pnio_v2200_image.bin”), you must first upload and run the associated V2.200 multiprotocol image (with filename “10610a_rom.bin”). The reason for this is because V2.200 & future firmware releases require a one-time adjustment to internal memory locations, and this adjustment code only exists in the multiprotocol “10610a_rom.bin” firmware image. After applying the V2.200 multiprotocol image and allowing the card to reboot, you may then freely apply the V2.200 PROFINET image to return PROFINET functionality to the interface card. No interface card configuration information is modified or lost during this stair-step application process. If you have any questions regarding this update process, please contact ICC technical support for assistance.
- PROFINET changes
 - Added support for PROFIdrive profile
- Web page changes
 - Fixed a bug whereby failed XML sockets were not being properly recycled. This could lead to a web browser session being unable to establish a successful XML socket connection until the interface card is rebooted.
 - Added Dashboard tab
 - Added “SMTP Authentication” fields to Alarm tab
- Other changes
 - Added support for email servers that require authentication (SMTP AUTH) when sending alarm emails
 - Added support for changing the IP address-related parameters via the drive’s keypad (only applies to G9 drives with V203r5 or later control board firmware, or H9 drives with V204r4 or later control board firmware)

GSDML file

- GSDML-V2.0-ICC-ASD-G9ETH-20090724.xml
- Added PROFIdrive module.
- Corrected Module VM_23 (IN8_OUT6) input and output sizes.

User’s manual version

- 10639-2.200-000

▶ **08.29.2008**

Multiprotocol firmware

- V2.100 release.



- Modbus TCP changes
 - Fixed infinite looping that could occur if extraneous data remains in receive buffer as a result of an improperly-coded Modbus master driver sending extra garbage bytes after the normal data packet
 - Added register remapping capabilities (ref. section 10.10.2)
 - Socket timeout resolution (entered via web page Config tab) increased to 0.01s increments
 - Increased the number of registers writable in a “write multiple registers” packet from 100 to 123
 - Increased the number of coils writable in a “force multiple coils” packet from 1600 to 1968
- BACnet/IP changes
 - Added support for output object priority arrays and relinquish default properties
 - Changed/added supported datatypes for reading and writing object properties (ref. “Datatypes Supported” table in section 13.4.2)
- EtherNet/IP changes
 - Allow only one exclusive owner connection
 - Allow only one input connection instance to be active at a time (e.g. 70, 71 or 150)
 - Allow multiple clients to simultaneously establish input-only connections
 - Added support for the ODVA AC/DC drive profile instances 20&70 / 21&71 (ref. section 13.2.2)
 - Added support for the AC/DC Drive, Control Supervisor and Motor Data objects
 - Changed product type code from Communications Adapter (12) to AC Drive (2)
 - Added the ability for the user to choose the action to take when an I/O connection's run/idle header indicates that the client is in the “idle” state (ref. section 10.8.3)
- Web page changes
 - Added Modbus tab
 - Corrected an issue caused by a new Flash Player “policy file request” that occurs with the latest release of the Flash Player browser plug-in. This would cause the XML sockets to fail on their initial connection attempt.
 - Added “Run/Idle Flag” behavior checkbox to EtherNet/IP tab
 - Added “SMTP Authentication” fields to Alarm tab
- Other changes
 - Added support for email servers that require authentication (SMTP AUTH) when sending alarm emails
 - Added support for changing the IP address-related parameters via the drive's keypad (only applies to G9 drives with V203r5 or later control board firmware, or H9 drives with V204r4 or later control board firmware)

PROFINET firmware

- No new PROFINET firmware released at this time: current version remains at V2.000

User's manual version

- 10639-2.100-000



▶ **06.09.2008**

ASD interface CPU firmware

- V1.200 release.
- Minor efficiency improvements to communication between ASD interface CPU and network interface CPU.

▶ **04.15.2008**

Multiprotocol firmware

- V2.000 release.
- Add Alarm monitoring functionality with email reporting.
- Add ability to change authentication information (config tab).
- Add ability to change IP address assignments via web page (config tab).
- Add selection for writing drive configuration parameters to just RAM or both RAM and EEPROM (config tab).
- Add Ethernet/IP class 1 (IO) messaging support with associated consumed/produced data configuration.
- Ethernet/IP class 3 (explicit) messaging tag references expanded to allow direct access to any available register.
- Ethernet/IP now triggers timeout processing when connection errors occur.
- Add support for Modbus TCP function codes 02 and 04.
- Add support for PCCC protocol (for Allen Bradley PLC-5 and SLC-500 series PLCs).

PROFINET firmware

- V2.000 release.
- Add Alarm monitoring functionality with email reporting.
- Add ability to change authentication information (config tab).
- Add ability to change IP address assignments via web page (config tab).
- Add selection for writing drive configuration parameters to just RAM or both RAM and EEPROM (config tab).

ASD interface CPU firmware

- V1.100 release.
- If communication to the drive is lost, then the network interface CPU is held in reset to prevent the illusion that the drive is still communicating to the Ethernet network.
- Add support for writing configuration parameters to both EEPROM and RAM.
- Correct an issue that causes the drive to fault with an "option PCB error" after resetting from any other (unrelated) fault.
- All customers are recommended to upgrade their ASD interface CPU firmware to V1.100: contact ICC technical support for assistance if you currently have an interface board with V1.000 ASD interface CPU firmware.

User's manual version

- 10639-2.000-000



▶ **10.12.2007**

Multiprotocol firmware

- V1.000 initial release.

PROFINET firmware

- V1.000 initial release.

ASD interface CPU firmware

- V1.000 initial release.

User's manual version

- 10639-1.000-000