i90 Scanner

Release Notes

A-i90S

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Firmware Revision 1.001.028

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1. PREFACE

1.1. COMPATIBILITY

Firmware revision 1.001.028 of the i90 Scanner will require the following compatible versions:

Software	Version
Slate	1.084 and later

1.2. NOTES

The following should be noted:

- Firmware upgrades will be done using Aparian's Slate software.
- Aparian flash files have an *.afb* extension.
- Should any interruptions cause the module to not complete the firmware upgrade the module will return to Safe Mode. The user can then re-flash the module with the application firmware. See the user manual for more information regarding Safe Mode.

1.3. ADDITIONAL INFORMATION

The following resources contain additional information that can assist the user with the module installation and operation.

Resource	Link
Slate Installation	http://www.aparian.com/software/slate
I90 Scanner User Manual I90 Scanner Datasheet Example Code & UDTs	http://www.aparian.com/products/i90scanner
Ethernet wiring standard	www.cisco.com/c/en/us/td/docs/video/cds/cde/cde205_220_420/installation/guide/cde205_220_420_hig/Connectors.html

1.4. SUPPORT

Technical support will be provided via the Web (in the form of user manuals, FAQ, datasheets etc.) to assist with installation, operation, and diagnostics.

For additional support the user can use either of the following:

Contact Us web link	www.aparian.com/contact-us
Support email	support@aparian.com

2. IMPROVEMENTS

The following updates are included in this firmware revision.

Revision	Improvement	Description
1.001.028	Emulation Mode	Added emulation mode that will allow the i90 Scanner to operate as a Bailey IO card.
1.001.024	IMDSM04	Improved count operation for the IMDSM04 Bailey card.
1.001.023	Min Scan Time	Added option to limit the update time of certain IO cards allowing more bandwidth for others.
	FEC11 and FEC12	Added standard and enhanced start modes to allow for different variations of the IO Cards.
	IMDSM04	Added IMDSM04 IO card.
1.001.017	IMDSO04/NDSO04	In shadow mode, save outputs sent from the controller to the Digital Input tags in Logix.
	AIS02	Correct scaling configuration sent.
	Shadow Mode	Increased speed to process shadow mode for fast update times.
	Shadow Mode	With AI modules, only show Running when all AI packets received.
	Shadow Mode	Added update times in the status form for Shadow mode.
	Priority Update	Added priority update for certain devices to allow faster update times.
	IMFBS01	Added support for the IMFBS01 card.
1.001.009	IMASI02 – AI16	Added Enhanced Packet Exchange mode.
	IMFEC11	Added the IMFEC11 Analog Input 15 module.
1.001.008	Hardware	Firmware for new updated hardware. **NOTE: THIS FIRMWARE WILL NOT RUN WITH THE FIRST REVISION HARDWARE.**
1.001.007	Additional i90 Modules	Added support for IMASI03/13 i90 modules.
	Shadow Mode	Added bits for status in shadow mode.
	DLR	Added support for Device-Level-Ring.
	Analog Output Scaling	Added readback scaling for the Analog Output and Combination card.

3. ANOMALIES FIXED

The following anomalies have been fixed in this firmware revision.

Revision	Anomaly	Description
1.001.028	None	-
1.001.026	Scaling	Scaling for IMASI02/NASI02 and IMFBS01 was incorrect for Analog Inputs 11 to 15.
1.001.025	Redundancy	Fixed issue with Redundant operation.
1.001.024	Soft Reset	Fixed anomaly with event log saving when soft reset is done.
1.001.023	FEC11 and FEC12	Fixed startup status values.
1.001.017	AIS02	Correct scaling configuration sent.
	IMFEC11 / IMFEC12	Updates to fix operation
	Logix Input Assembly	Fixed issue where the incorrect device was being shown.
1.001.007	Shadow Redundant Mode	Fixed anomaly where the backplane clock was still being driven.

4. KNOWN ANOMALIES

The following known anomalies exist in this firmware revision.

Revision	Anomaly	Description
1.001.028	None	-