

## RFP Version 3 Firmware Release History

LXI Web Page supported Web Browsers(Applies only to RFP Controller V3.000.017 or later versions):  
 Internet Explorer 9.0.8112.16421  
 Google Chrome 41.0.2272.101  
 Firefox 36.0.1

Supported RFP GUI:  
 RFP GUI V1.0.1 beta 2

Hardware Revision Supported(Applies to all Module Types):

Module	Module Usage	Firmware P/N	Firmware version	Release Date	Description of Change
Controller	RFP-C1LAN-xxx-xxx	4380405-14	3.000.001	02/04/10	RFP VER 3 FIRMWARE UPDATE (USE THIS ECN IN-CONJUNCTION WITH EC-000515).
Controller	RFP-C1LAN-xxx-xxx	4380405-15	3.000.003	02/18/10	UPDATE FIRMWARE FOR VER 3.000.001 TO 3.000.002
Controller	RFP-C1LAN-xxx-xxx	4380405-16	3.000.003	05/26/10	RFP-AC BROWNOUT FIRMWARE UPDATE 3.000.004
Controller	RFP-C1LAN-xxx-xxx	4380405-17	3.000.005	08/13/10	RFP VER.3 SYSTEM UPDATE FOR ROLL CALL PROCESSING, DC MODULES FAILED TO PROPERLY INITIALIZE.
Controller	RFP-C1LAN-xxx-xxx	4380405-18	3.000.008	11/10/11	RFP AC POWER SUPPLY DC PROTECTION FAULT FIX. AC IVI DRIVER SUPPORT.
Controller	RFP-C1LAN-xxx-xxx	4380405-19	3.000.009	11/16/11	RFPC-LXI VXI-11 MODIFICATION V3
Controller	RFP-C1LAN-xxx-xxx	4380405-23	3.000.012	06/28/13	RFP CONTROLLER UPDATE FOR DFI AND LXI-11 SRQ, FLASH TEMPERATURE FIX. FLASH SANITIZATION FEATURE IMPLEMENTED. Sanitization. Add delay to LXI-11 RFPVxi Create/Destroy Link to give the RFPParser time to handle the connection state change. Controller firmware did not accept leading ":" of any SCPI command in testing IVI driver. Functionality added to comply with SCPI convention. A compound Command string ""*RST;*OPC?" did not respond properly when using an instrument (LXI) connection in testing IVI driver. New requirement due to IVI changes. Cleanup of STB register processing for SRQ generation.
Controller	RFP-C1LAN-xxx-xxx	4380405-24	3.000.014	02/28/14	MODIFY RFP DC FW (TO 3.000.014) TO DELAY SRQ AND ADD DELAY TIMER FOR CV-CC STATUS. REQUESTED FOR ECASS, TO BEHAVE SIMILARLY TO ORIGINAL CASS PRODUCT. (LPDC, HPDC & RFPC) NON-ECASS PRODUCT NOT AFFECTED (SETTING CONFIGURABLE). 3.000.014 Firmware modified for eCASS to allow a programmable CV to CC status update delay to match the performance of the old CASS power supplies that were 350ms.
Controller	RFP-C1LAN-xxx-xxx	4380405-25	3.000.015	06/03/14	RFP CONTROLLER: RELEASE F/W V3.000.015 TO CORRECT ERRONEOUS ACTIVATION OF RFP -C FAULT LED BY POWER MODULE DISABLE SIGNAL (MODENA FAULT). Ignore all ModEna faults in Fault system.
Controller	RFP-C1LAN-xxx-xxx	4380405-26	3.000.016	12/12/2014	RFP DC MODULES: ADDED ENABLE BEHAVIOR OPTIONS. CT 3.000.016/ Add commands to modify ModEna behavior. DC 3.000.017
Controller	RFP-C1LAN-xxx-xxx	4380405-27	3.000.017	3/31/2015	1. Removed redundant HTML key words. Changed Webserver to handle creation of dynamic WebPages in a way that the new web browsers will accept. 2. Increased the maximum timeout value allowed for LXI :INST connections to 25 seconds. 3. Reworked LXI event handling logic to handle more than one event at the same time.
Controller	RFP-C1LAN-xxx-xxx	4380405-28	3.000.018	7/1/2015	1. Modify the summary Protection Event Register processing to prevent the possibility of erroneous SRQ's from being generated. 2. Reworked LXI event handling logic to handle multiple simultaneous events.
AC (1.2k)	RFP-A301K-875-xxx	4380492-03	3.100.003	02/04/10	RFP VER 3 FIRMWARE UPDATE (USE THIS ECN IN-CONJUNCTION WITH EC-000515)
AC (1.2k)	RFP-A301K-875-xxx	4380492-04	3.100.004	05/26/10	RFP-AC BROWNOUT FIRMWARE UPDATE 3.000.004.
AC (1.2k)	RFP-A301K-875-xxx	4380492-05	3.100.007	07/07/10	RFP SOFTWARE CORRECTION TO SHOW VER 2 AND VER 3 THEN RELEASE TOP ASSY RELEASE
AC (1.2k)	RFP-A301K-875-xxx	4380492-06	3.100.007	08/13/10	RFP VER.3 SYSTEM UPDATE FOR ROLL CALL PROCESSING, DC MODULES FAILED TO PROPERLY INITIALIZE.
AC (1.2k)	RFP-A301K-875-xxx	4380492-07	3.100.010	03/01/11	RFP DCB REV C PCB CHANGED PERIPHERAL CHIP TIMING.
AC (1.2k)	RFP-A301K-875-xxx	4380492-08	3.100.013	11/10/11	RFP AC POWER SUPPLY DC PROTECTION FAULT FIX. AC IVI DRIVER SUPPORT.
AC (1.2k)	RFP-A301K-875-xxx	4380492-09	3.100.014	12/26/11	RFP ACPS VHDL FIRMWARE IMPROVEMENT TO CORRECT DCP AND OCP NUISANCE FAULT TRIPS. IMPLEMENTED WITH ECO 4424 (U26 2.5 ON VREF ON 5380109 ANALOG CTRL BD TO IMPROVE DC-OFFSET STABILITY)
AC (1.2k)	RFP-A301K-875-xxx	4380492-10			Not Released

AC (1.2k)	RFP-A301K-875-xxx	4380492-11	3.100.016	10/15/12	RFP AC 1.2/5K - GROUP ERROR MSG ENHANCEMENT Fixed syst:err? messages from slaves from Master generated cmnds.
AC (1.2k)	RFP-A301K-875-xxx	4380492-12	3.100.017	07/01/13	SYSTEM IMPLEMENTATION OF SANITIZE FEATURE
AC (1.2k)	RFP-A301K-875-xxx	4380492-13	3.100.018	08/27/13	RELEASE NEW FIRMWARE V3.X00.019 FOR RFP-AC 1.2KHZ 4380492-13 AND RFP-AC 5.0KHZ 4380496-13. RFP ACPS: CORRECTED BUG IN RECENTLY ADDED FEATURE THAT PREVENTS CUSTOMER FROM PERFORMING CURRENT CALIBRATION WITH NO LOAD ATTACHED. F/W 1.2KHZ = V3.100.018, 5.0KHZ = V3.500.018
AC (5k)	RFP-A305K-875-xxx	4380496-03	3.500.003	02/04/10	RFP VER 3 FIRMWARE UPDATE (USE THIS ECN IN-CONJUNCTION WITH EC-000515).
AC (5k)	RFP-A305K-875-xxx	4380496-04	3.500.004	05/26/10	RFP-AC BROWNOUT FIRMWARE UPDATE 3.000.004.
AC (5k)	RFP-A305K-875-xxx	4380496-05	3.500.007	07/07/10	RFP SOFTWARE CORRECTION TO SHOW VER 2 AND VER 3 THEN RELEASE TOP ASSY RELEASE
AC (5k)	RFP-A305K-875-xxx	4380496-06	3.500.007	08/13/10	RFP VER.3 SYSTEM UPDATE FOR ROLL CALL PROCESSING, DC MODULES FAILED TO PROPERLY INITIALIZE.
AC (5k)	RFP-A305K-875-xxx	4380496-07	3.500.010	03/01/11	RFP DCB REV C PCB CHANGED PERIPHERAL CHIP TIMING.
AC (5k)	RFP-A305K-875-xxx	4380496-08	3.500.012	11/10/11	RFP AC POWER SUPPLY DC PROTECTION FAULT FIX. AC IVI DRIVER SUPPORT
AC (5k)	RFP-A305K-875-xxx	4380496-09	3.500.014	12/26/11	RFP ACPS VHDL FIRMWARE IMPROVEMENT TO CORRECT DCP AND OCP NUISANCE FAULT TRIPS. IMPLEMENTED WITH ECO 4424 (U26 2.5 ON VREF ON 5380109 ANALOG CTRL BD TO IMPROVE DC-OFFSET STABILITY)
AC (5k)	RFP-A305K-875-xxx	4380496-10	3.500.015	02/23/12	RFP AC 5.0KHZ FIRMWARE - RETIME SDRAM CLOCK, MODIFY TIMING TO IMPROVE MARGIN.
AC (5k)	RFP-A305K-875-xxx	4380496-11	3.500.016	10/15/12	RFP AC 1.2/5K - GROUP ERROR MSG ENHANCEMENT Fixed syst:err? messages from slaves from Master generated cmnds.
AC (5k)	RFP-A305K-875-xxx	4380496-12	3.000.017	07/01/13	SYSTEM IMPLEMENTATION OF SANITIZE FEATURE
AC (5k)	RFP-A305K-875-xxx	4380496-13	3.500.018	08/27/13	RELEASE NEW FIRMWARE V3.X00.018 FOR RFP-AC 1.2KHZ 4380492-13 AND RFP-AC 5.0KHZ 4380496-13. RFP ACPS: CORRECTED BUG IN RECENTLY ADDED FEATURE THAT PREVENTS CUSTOMER FROM PERFORMING CURRENT CALIBRATION WITH NO LOAD ATTACHED. F/W 1.2KHZ =V3.100.018, 5.0KHZ =V3.500.018
DC	RFP-Dxxxx-xxx-xxx	4380407-12	3.000.002	02/04/10	RFP VER 3 FIRMWARE UPDATE (USE THIS ECN IN-CONJUNCTION WITH EC-000515).
DC	RFP-Dxxxx-xxx-xxx	4380407-13	3.000.003	07/07/10	RFP SOFTWARE CORRECTION TO SHOW VER 2 AND VER 3 THEN RELEASE TOP ASSY RELEASE
DC	RFP-Dxxxx-xxx-xxx	4380407-14	3.000.004	08/13/10	RFP VER.3 SYSTEM UPDATE FOR ROLL CALL PROCESSING, DC MODULES FAILED TO PROPERLY INITIALIZE.
DC	RFP-Dxxxx-xxx-xxx	4380407-15	3.000.007	03/01/11	RFP DCB REV C PCB CHANGED PERIPHERAL CHIP TIMING.
DC	RFP-Dxxxx-xxx-xxx	4380407-16	3.000.009	07/01/13	SYSTEM IMPLEMENTATION OF SANITIZE FEATURE FOR RFP POWER MODULES.
DC	RFP-Dxxxx-xxx-xxx	4380407-17	3.000.012	09/24/13	RFP DC FIX TO FAULT GROUP AND LIST ENGINE LOGIC. ADD SANITATION. V3.000.012 4380407-17
DC	RFP-Dxxxx-xxx-xxx	4380407-18	3.000.014	02/28/14	MODIFY RFP DC FW (TO 3.000.014) TO DELAY SRQ AND ADD DELAY TIMER FOR CV TO CC STATUS CHANGE. REQUESTED FOR ECASS, TO BEHAVE SIMILARLY TO ORIGINAL CASS PRODUCT. (LPDC, HPDC & RFPC) NON-ECASS PRODUCT NOT AFFECTED (SETTING CONFIGURABLE). 3.000.014 Firmware modified for eCASS to allow a programmable CV to CC status update delay to match the performance of the old CASS power supplies that were 350ms. Added stat:mode:delay nn command.
DC	RFP-Dxxxx-xxx-xxx	4380407-19	3.000.015	08/24/14	RFP-DC: RELEASE F/W V3.000.015 TO CORRECT MODULE ENABLE VS *RST BEHAVIOR.
DC	RFP-Dxxxx-xxx-xxx	4380407-20	3.000.016	09/12/14	RFP-DC RELEASE F/W 3.000.016 ALLOW SETPOINT CONTROL DURING LIST EXECUTION. Allow V/I setting changes during LIST operation
DC	RFP-Dxxxx-xxx-xxx	4380407-21	3.000.017	12/12/14	RFP DC MODULES: ADDED ENABLE BEHAVIOR OPTIONS.CT 3.000.016/ DC 3.000.017 Add modifications to ModEna actions.
Load	RFP-L3500-xxx-xxx	4380456-03	3.000.001	02/04/10	RFP VER 3 FIRMWARE UPDATE (USE THIS ECN IN-CONJUNCTION WITH EC-000515).
Load	RFP-L3500-xxx-xxx	4380456-04	3.000.003	07/07/10	RFP SOFTWARE CORRECTION TO SHOW VER 2 AND VER 3 THEN RELEASE TOP ASSY RELEASE
Load	RFP-L3500-xxx-xxx	4380456-05	3.000.004	08/13/10	RFP VER. 3 SYSTEM UPDATE FOR ROLL CALL PROCESSING, DC MODULES FAILED TO PROPERLY INITIALIZE.
Load	RFP-L3500-xxx-xxx	4380456-06	3.000.005	07/01/13	SYSTEM IMPLEMENTATION OF SANITIZE FEATURE
Load	RFP-L3500-xxx-xxx	4380456-07	3.000.006	10/11/13	FIXED FW TIMING ERROR IN CONTROL LOGIC WITH RESISTANCE MODE HW LOGIC.
Load	RFP-L3500-xxx-xxx	4380456-08	3.000.007	08/07/15	FIXED ERROR IN VOLTAGE CALIBRATION LOGIC. REQUIRES RE-CALIBRATION FOR PROPER READ-BACK ON ALL RESISTANCE RANGES FOR VOLTAGE
Load	RFP-L3500-xxx-xxx	4380456-09	3.000.008	09/16/15	Fixed error in Group Creation logic in Load Master module.