GFK-3001A August 2018

IC695ACC403-AA RX3i Rackless Energy Pack IC695ACC413-AA RX3i Rackless Replacement Cap Pack IC695CBL003A RX3i Rackless Energy Pack Cable

Overview

Whenever power is lost, the PACSystems RX3i IC695ACC403 Energy Pack provides the energy required for an orderly backup of user memory in the IC695CPE400 or IC695CPL410 CPU to which it is attached. IC695ACC403 consists of the Energy Pack base, a capacitor pack (Cap Pack), input power connector header, and a custom cable.

The IC695ACC413 is a replacement Cap Pack. The IC695CBL003 is a replacement cable. These replacement parts may be ordered separately. The capacitors used in the Cap Pack have a life expectancy of 5 years.

The ICC695ACC403 is also available as part of the IC695CPK400 and IC695CKL410 kits which bundle the CPE400 or CPL410 and Energy Pack together.

Current Release Information

Catalog Number	Bundled w/CPE400	Date	Firmware Version	Comments
			Primary	
IC695ACC403-AA	IC695CPK400-AAAA	Dec 2016	3.03	Initial production release
IC695ACC413-AA		Dec 2016		Spare Part item
IC695CBL003A		Dec 2016		Spare Part item

Upgrade Strategy:

The Energy Pack firmware is automatically upgraded upon power-up by the CPE400 or CPL410 if an update is necessary.

The firmware upgrade process may take up to four minutes to complete depending on the contents of the update. During the update, the rackless CPU's RUN and OUTPUTS ENABLED LEDs blink GREEN and the rackless CPU may automatically reset one or more times. All LEDs will be off during the automatic resets and the IC695ACC403 Energy Pack will be updated. During an update, the energy pack blinks all LEDs GREEN and performs an automatic reset following its update.

Do not manually power cycle the CPE400 / CPL410 or remove the CAP Pack from the base of the Energy Pack during the update, as this may place the CPE400 / CPL410 and Energy Pack in an unrecoverable and unusable state.

Upgrade Kit:

The ACC403 does not have its own upgrade kit. Its firmware is bundled into the IC695CPE400 or IC695CPL410 upgrade kit. Upgrades are available for download at www.geautomation.com.

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Release History

Catalog Number	Date	Comments
		No prior release

Functional Compatibility

Subject	Feature	Minimum Version Required
Programmer Version Requirements	ACC403 Energy Pack Support	N/A - Proficy™ Machine Edition Logic Developer PLC is not required to configure the ACC403 Energy Pack
IC695CPE400 Version Requirements	ACC403 Energy Pack Support	PACSystems RX3i CPU Release 9.00
IC695CPL410 Version Requirements	ACC403 Energy Pack Support	PACSystems RX3i CPU Release 9.55 (initial version)
PACSystems Energy Pack Compatibility	IC695ACC403. The CPE400 / CPL410 is not co the IC695ACC400 CPE305/310 It is not possible to connect the Energy Pack together. It is possible to connect the Energy Pack Base. If this of the Energy Pack Base. It is possible to connect the IC695ACC413 Capacitor Pack It is physically possible to the Energy Pack Base. It is physically possible to the IC695ACC412 Capacitor Pack Base. It is physically possible to the Energy Pack Base. It is physically possible to the Energy Pack Base. It is physically possible to the Energy Pack Base. It is physically possible to the It is physically possible to the IC695CPE400 or IC695CPE	mpatible with the IC695CPE400 or IC695CPL410 is the mpatible with the ICRXIACCEPK01 RXi Controller Energy Pack, Energy Pack, or the IC695ACC402 CPE330 Energy Pack. It the CPE400 / CPL410 and the IC695ACC400 CPE305/310 el ICRXIACCCPK01A RXi Capacitor Pack to the IC695ACC403 ccurs, the capacitor pack operates normally. el IC695ACC403 CPE400 / CPL410 Energy Pack and ack to an ICRXICTL000 controller. If this occurs no errors are nory may not be preserved under all conditions. Do not use or ACC413 Capacitor Pack with the RXi Controller. Connect the IC695ACC403 CPE400 / CPL410 Energy Pack to r. If this occurs, no errors are logged. However, it will not updates to the ACC403 Energy Pack. Do not use the nack to an IC695ACC402 CPE330 Energy Pack and ack to an IC695CPE400 or IC695CPL410 controller. If this ed. However, it will not allow any future firmware updates to citors will reach their end-of-life threshold faster than the IACC413. Do not use the ACC402 Energy Pack or ACC412 RX3i CPE400 / CPL410 Controller. connect the ICRXIACCEPK01A RXi Energy Pack to an 410 controller. If this occurs no errors are logged. However, firmware updates to the EPK01A and user memory may not

Problems Resolved by this Revision

Subject	ID code	Description
N/A	N/A	Initial release of these products

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Restrictions and Open Issues

Subject	ID code	Description
Clear All clears PLC_BAT and masks Energy Pack failures	DE715	A Clear All operation clears the values of all %S bits. After this operation the PLC_BAT status bit value may not reflect the actual status of the Energy Pack. For example, an Energy Pack in a failed state prior to the Clear All operation will remain in the failed state after the Clear All. Nonetheless, the PLC_BAT bit will indicate a good state as a result of the Clear All operation. Remove the Cap Pack and reinstall it in order to reassert the PLC_BAT status bit.
EPK Status LED wrong after fully charged cap pack hot insertion	DE3337	The Energy Pack Status LED does not blink when a fully charged cap pack is hot-inserted. If one removes the fully charged cap pack and then reinserts it immediately, the Status LED comes on solid green. However, if you then immediately power down the EPK within 10 seconds of the Cap Pack reinsertion, the system may not back up properly. If you wait 15 seconds or more after reinsertion and then lose power, the system backs up properly. If you insert a replacement ACC413 (uncharged), then the system will operate as expected. It will charge the new cap pack while the Status LED blinks green. Once fully charge, the Status LED will turn solid green and the unit will properly backup the system.

Operational Notes

Subject	Description
Hot Swap of Cap Pack during Firmware Update results in 2-8-2-5 Blink Code	Insertion or removal of the ACC413 Energy Pack Cap Pack during an Energy Pack firmware update may cause the CPE400 / CPL410 controller to become non-responsive. In order to recover from this condition, the user must cycle power to the controller.
Insertion of Cap Pack During Controller Power-Up may log Failed Battery Fault	If the Energy Pack is powered on without a Cap Pack and then a Cap Pack is inserted during power-up of the controller, a failed battery fault may be logged by the controller. The controller expects the Energy Pack to report fully charged within a certain amount of time. This time limit may be exceeded if the Cap Pack is absent at power-up. The failed battery fault is logged, but once charging completes all fault bits are cleared, as applicable.

Product Documentation

PACSystems RX3i Rackless Energy Pack ICC695ACC403 Quick Start Guide	GFK-3000
PACSystems IC695CPE400 RX3i 1.2GHz 64MB Rackless CPU w/Field Agent Quick Start Guide	GFK-3002
PACSystems IC695CPL410 RX3i 1.2GHz 64MB Rackless CPU w/Linux Quick Start Guide	GFK-3053
PACSystems Controllers Battery & Energy Pack Manual	GFK-2741
PACSystems RX7i & RX3i CPU Reference Manual	GFK-2222
PACSystems RX3i System Manual	GFK-2314

User manuals, product updates and other information sources are available on the GE Support website, www.geautomation.com, under Controllers and IO, RX3i Controllers.