

PRODUCT UPDATE ANNOUNCEMENT



Description

Due to the obsolescence of key components, Fairmount Automation will be forced to discontinue production of the **current generation** of Chameleon AIN-1, ASM-1, DIN-1, DAM-1, DAM-2, DAM-3, NIM-1, NIM-2, NIM-3, NIM-4, NIM-6, NIM-7, and PCM-1 module active boards and FAC-2100 products. The lifecycle status of the current generation of these products is now end of life (EOL). Chameleon wiring hubs and enclosures for the above modules are not EOL. The complete list of affected part numbers can be found in the table at the end of this notification.

Mitigation

In 2022 Fairmount Automation initiated design of the **next generation** of Chameleon and FAC-2100 products. This new generation of products, called **Chameleon Plus(+)** and **FAC-2100 Plus(+)**, was designed to replace obsolete components with modern electronic components and to incorporate new product features. We encourage all customers to begin planning a migration of existing and future installations to the next-generation Chameleon+ and FAC-2100+ products.

Fairmount Automation has acquired parts to fulfill all existing purchase orders, as well as a supply of parts for future purchase orders. Quantities available for future orders are limited and requests for purchase will be considered on a case-by-case basis.

We will continue to provide technical support on all products. In addition, we will continue to repair the EOL products for as long as replacement parts can be acquired.

Differences Between Current and Next Generation Products

Chameleon+ and FAC-2100+ products have been designed to be mechanical and electrical drop-in replacements¹ for current generation devices. All existing software programs will run in the next generation products without modification. All environmental, mechanical, and electrical specifications maintain full compatibility with all existing installations. Next generation products can be used in combination with current generation products² (e.g., you can combine new and current generation devices within the same node or installation.)

Some new features of Chameleon+ and FAC-2100+ products include:

- Significantly faster microprocessors and increased memory
- Cyber security enhancements including secure boot with firmware and configuration validation, intrusion detection, role-based authentication control (RBAC), hardware validation, encrypted files/communication, trust groups, and historical logging with evidence of critical events
- USB ports that may be used for configuration and/or computer-less programming
- Module expansion port for installation of optional features such as two-port Ethernet in any module

Additional information regarding these features and part numbers for new Chameleon+ and FAC-2100+ parts will be made available on our website soon.

¹ Some NIM-2 installations may require also updating the Ethernet daughterboard when converting to Chameleon+. Contact Fairmount Automation for more information.

² All products that use next generation Chameleon+ or FAC-2100+ require use of (new) v5.2.xxx firmware, Design Pad, and Schema Viewer.

Chameleon Part Numbers Impacted by this Notification and Corresponding Chameleon+ Replacement Part Numbers

Base Module Type	Chameleon Original Part Number	Chameleon+ Replacement Part Number	Original Part Description
AIN-1	01012-013	01012-413	AIN-1 with Gray Enclosure
	01012-313	01012-713	AIN-1 with Black Enclosure (without Stuffing Tubes)
	01014-013	01014-413	AIN-1 Full-Size Gray Enclosure with Wiring Hub Assembly
	01014-313	01014-713	AIN-1 Full-Size Black Enclosure and Wiring Hub Assembly (without Stuffing Tubes)
	11066-200	11122-200	AIN-1 Active Board and Gray Cover
	11066-250	11122-250	AIN-1 Active Board and Black Cover
	11066-260	11122-260	AIN-1 Active Board and Metal Cover
ASM-1	01012-065	01012-465	ASM-1 with Gray Enclosure
	01012-365	01012-765	ASM-1 with Black Enclosure (without Stuffing Tubes)
	01014-065	01014-465	ASM-1 Full-Size Gray Enclosure with Wiring Hub Assembly
	01014-365	01014-765	ASM-1 Full-Size Black Enclosure and Wiring Hub Assembly (without Stuffing Tubes)
	11070-200	11123-200	ASM-1 Active Board and Gray Cover
	11070-250	11123-250	ASM-1 Active Board and Black Cover
DAM-1	01012-003	01012-403	DAM-1BK with Gray Enclosure
	01012-303	01012-703	DAM-1BK with Black Enclosure (without Stuffing Tubes)
	01012-326	01012-726	DAM-1ISO with Black Enclosure (without Stuffing Tubes)
	01014-003	01014-403	DAM-1BK Full-Sized Gray Enclosure with Wiring Hub Assembly
	01014-026	01014-426	DAM-1ISO Full Size Gray Enclosure and Wiring Hub
	01014-303	01014-703	DAM-1BK Full-Sized Black Enclosure and Wiring Hub Assembly (without Stuffing Tubes)
	01014-326	01014-726	DAM-1ISO Full Size Black Enclosure and Wiring Hub (without Stuffing Tubes)
	11047-202	11133-202	DAM-1 Active Board and Gray Cover
11047-252	11133-252	DAM-1 Active Board and Black Cover	
DAM-2	01012-014	01012-414	DAM-2BK with Gray Enclosure
	01012-019	01012-419	DAM-2ISO with Gray Enclosure
	01012-314	01012-714	DAM-2BK with Black Enclosure (without Stuffing Tubes)
	01012-319	01012-719	DAM-2ISO with Black Enclosure (without Stuffing Tubes)
	01014-014	01014-414	DAM-2BK Full Size Gray Enclosure and Wiring Hub Assembly
	01014-019	01014-419	DAM-2ISO Full-Size Gray Enclosure with Wiring Hub Assembly
	01014-314	01014-714	DAM-2BK Full Size Black Enclosure and Wiring Hub Assembly (without Stuffing Tubes)
	01014-319	01014-719	DAM-2ISO Full-Size Black Enclosure and Wiring Hub Assembly (without Stuffing Tubes)
	11047-200	11133-200	DAM-2 Active Board and Gray Cover
11047-250	11133-250	DAM-2 Active Board and Black Cover	
DAM-3	01012-072	01012-472	DAM-3ISO with Gray Enclosure
	01012-373	01012-773	DAM-3ISO with Black Enclosure (without Stuffing Tubes)
	01014-073	01014-473	DAM-3ISO Full-Size Gray Enclosure with Wiring Hub Assembly
	01014-373	01014-773	DAM-3ISO Full-Size Black Enclosure and Wiring Hub Assembly (without Stuffing Tubes)

Base Module Type	Chameleon Original Part Number	Chameleon+ Replacement Part Number	Original Part Description
	11093-200	11124-200	DAM-3 Active Board and Gray Cover
	11093-250	11124-250	DAM-3 Active Board and Black Cover
	11093-260	11124-260	DAM-3 Active Board and Metal Cover
DIN-1 ³	01012-062	N/A	DIN-1 with Gray Enclosure
	01012-362	N/A	DIN-1 with Black Enclosure (without Stuffing Tubes)
	01014-062	N/A	DIN-1 Full-Size Gray Enclosure with Wiring Hub Assembly
	01014-362	N/A	DIN-1 Full-Size Black Enclosure and Wiring Hub Assembly (without Stuffing Tubes)
	11063-200	N/A	DIN-1 Active Board and Gray Cover
	11063-250	N/A	DIN-1 Active Board and Black Cover
FAC-2100	01003-021	01003-421	FAC-2100 Digital Controller with DC Input Power and 28VDC Output
	01003-022	01003-422	FAC-2100 Digital Controller with DC Input Power, 28VDC Output, and Solid-State Relays
NIM-1	01012-002	01012-402	NIM-1 with Gray Enclosure
	01012-302	01012-702	NIM-1 with Black Enclosure (without Stuffing Tubes)
	01014-002	01014-402	NIM-1 Half-Size Gray Enclosure with Wiring Hub Assembly
	01014-302	01014-702	NIM-1 Half-Size Black Enclosure and Wiring Hub Assembly (without Stuffing Tubes)
	11030-200	11132-200	NIM-1 Active Board and Gray Cover
	11030-250	11132-250	NIM-1 Active Board and Black Cover
NIM-2	SEE TABLE BELOW FOR NIM-2 INFORMATION		
NIM-3 ³	01012-009	N/A	NIM-3 with Gray Enclosure
	01012-309	N/A	NIM-3 with Black Enclosure (without Stuffing Tubes)
	01014-009	N/A	NIM-3 Half-Size Gray Enclosure with Wiring Hub Assembly
	01014-309	N/A	NIM-3 Half-Size Black Enclosure and Wiring Hub Assembly (without Stuffing Tubes)
	11030-201	N/A	NIM-3 Active Board and Gray Cover
	11030-251	N/A	NIM-3 Active Board and Black Cover
NIM-4	01012-010	01012-410	NIM-4 with Gray Enclosure
	01012-310	01012-710	NIM-4 with Black Enclosure (without Stuffing Tubes)
	01014-010	01014-410	NIM-4 Half-Size Gray Enclosure with Wiring Hub Assembly
	01014-310	01014-710	NIM-4 Half-Size Black Enclosure with Wiring Hub Assembly (without Stuffing Tubes)
	11030-202	11132-202	NIM-4 Active Board and Gray Cover
	11030-252	11132-252	NIM-4 Active Board and Black Cover
NIM-6	01012-017	01012-417	NIM-6 with Gray Enclosure
	01012-317	01012-717	NIM-6 with Black Enclosure (without Stuffing Tubes)
	01014-017	01014-417	NIM-6 Half-Size Gray Enclosure with Wiring Hub Assembly
	01014-317	01014-717	NIM-6 Half-Size Black Enclosure and Wiring Hub Assembly (without Stuffing Tubes)
	11050-200	11134-200	NIM-6 Active Board and Gray Cover
	11050-250	11134-250	NIM-6 Active Board and Black Cover
NIM-7 ³	01012-024	N/A	NIM-7 with Gray Enclosure
	01012-324	N/A	NIM-7 with Black Enclosure (without Stuffing Tubes)

³ Due to low volume, these modules will not have a Chameleon+ replacement. Existing stock of these parts will support the installation base.

Base Module Type	Chameleon Original Part Number	Chameleon+ Replacement Part Number	Original Part Description
	01014-024	N/A	NIM-7 Half-Size Gray Enclosure with Wiring Hub Assembly
	01014-324	N/A	NIM-7 Half-Size Black Enclosure and Wiring Hub Assembly (without Stuffing Tubes)
	11057-200	N/A	NIM-7 Active Board and Gray Cover
	11057-250	N/A	NIM-7 Active Board and Black Cover
PCM-1	01012-000	01012-400	PCM-1 with Gray Enclosure
	01012-300	01012-700	PCM-1 with Black Enclosure (without Stuffing Tubes)
	01014-000	01014-400	PCM-1 Full-Size Gray Enclosure with Wiring Hub Assembly
	01014-300	01014-700	PCM-1 Full-Size Black Enclosure and Wiring Hub Assembly (without Stuffing Tubes)
	11013-200	11121-200	PCM-1 Active Board and Gray Full-Size Cover
	11013-250	11121-250	PCM-1 Active Board and Black Full-Size Cover

Chameleon NIM-2 Part Numbers Impacted by this Notification and Corresponding Chameleon+ Replacement Part Numbers

Chameleon NIM-2 Original Part Number	Chameleon+ NIM-8+ Replacement Part Number⁴	Chameleon+ NIM-9+ Replacement Part Number⁵	Original Part Description
01012-006	01012-406	01012-506	NIM-2 with Gray Enclosure
01012-030	01012-430	N/A	NIM-2TF with Gray Enclosure
01012-033	N/A	N/A	NIM-2LC1 with Gray Enclosure
01012-034	N/A	N/A	NIM-2LC1TF with Gray Enclosure
01012-037	N/A	N/A	NIM-2LC2 with Gray Enclosure
01012-038	N/A	N/A	NIM-2LC2TF with Gray Enclosure
01012-047	01012-447	N/A	NIM-2ST1 with Gray Enclosure
01012-050	01012-450	N/A	NIM-2ST2 with Gray Enclosure
01012-071	01012-471	N/A	NIM-2STS1 with Gray Enclosure
01012-306	01012-706	N/A	NIM-2 with Black Enclosure (without Stuffing Tubes)
01012-330	01012-730	N/A	NIM-2TF with Black Enclosure (without Stuffing Tubes)
01012-333	N/A	N/A	NIM-2LC1 with Black Enclosure (without Stuffing Tubes)
01012-334	N/A	N/A	NIM-2LC1TF with Black Enclosure (without Stuffing Tubes)
01012-337	N/A	N/A	NIM-2LC2 with Black Enclosure (without Stuffing Tubes)
01012-338	N/A	N/A	NIM-2LC2TF with Black Enclosure (without Stuffing Tubes)
01012-347	01012-747	N/A	NIM-2ST1 (1 Multimode ST Fiber) with Black Enclosure (without Stuffing Tubes)
01012-350	01012-750	N/A	NIM-2ST2 (2 Multimode ST Fiber) with Black Enclosure (without Stuffing Tubes)
01012-371	01012-771	N/A	NIM-2STS1 (1 Single Mode ST Fiber) with Black Enclosure (without Stuffing Tubes)
01014-006	01014-406	N/A	NIM-2 Full-Size Gray Enclosure with Wiring Hub & Daughter Board Assemblies
01014-030	01014-430	N/A	NIM-2TF Full-Sized Gray Enclosure with Wiring Hub & Daughter Board Assemblies
01014-033	N/A	N/A	NIM-2LC1 Full-Sized Gray Enclosure with Wiring Hub & Daughter Board Assemblies
01014-034	N/A	N/A	NIM-2LC1TF Full-Sized Gray Enclosure with Wiring Hub & Daughter Board Assemblies
01014-037	N/A	N/A	NIM-2LC2 Full-Sized Gray Enclosure with Wiring Hub & Daughter Board Assemblies
01014-038	N/A	N/A	NIM-2LC2TF Full-Sized Gray Enclosure with Wiring Hub & Daughter Board Assemblies
01014-047	01014-447	N/A	NIM-2ST1 (1 Multimode ST Fiber) Full-Sized Gray Enclosure with Wiring Hub & Daughter Board Assemblies
01014-050	01014-450	N/A	NIM-2ST2 (2 Multimode ST Fiber) Full-Sized Gray Enclosure with Wiring Hub & Daughter Board Assemblies
01014-071	01014-471	N/A	NIM-2STS1 (1 Single Mode ST Fiber) Full-Sized Gray Enclosure with Wiring Hub & Daughter Board Assemblies
01014-306	01014-706	01014-806	NIM-2 Full-Size Black Enclosure and Wiring Hub & Daughter Board Assemblies (without Stuffing Tubes)

⁴ NIM-8+ has the complete features set of the NIM-2 (except LC Fiber) but requires a different daughter board. See table for replacement NIM-8+ daughter boards.

⁵ NIM-9+ is a NIM-2 drop-in replacement (i.e., it uses the NIM-2 daughter board) for installations that use copper Ethernet on ports 1, 2, and/or 3 only.

Chameleon NIM-2 Original Part Number	Chameleon+ NIM-8+ Replacement Part Number⁴	Chameleon+ NIM-9+ Replacement Part Number⁵	Original Part Description
01014-330	01014-730	N/A	NIM-2TF Full-Sized Black Enclosure and Wiring Hub & Daughter Board Assemblies (without Stuffing Tubes)
01014-333	N/A	N/A	NIM-2LC1 Full-Sized Black Enclosure and Wiring Hub & Daughter Board Assemblies (without Stuffing Tubes)
01014-334	N/A	N/A	NIM-2LC1TF Full-Sized Black Enclosure and Wiring Hub & Daughter Board Assemblies (without Stuffing Tubes)
01014-337	N/A	N/A	NIM-2LC2 Full-Sized Black Enclosure and Wiring Hub & Daughter Board Assemblies (without Stuffing Tubes)
01014-338	N/A	N/A	NIM-2LC2TF Full-Sized Black Enclosure and Wiring Hub & Daughter Board Assemblies (without Stuffing Tubes)
01014-347	01014-747	N/A	NIM-2ST1 (1 Multimode ST Fiber) Full-Sized Black Enclosure and Wiring Hub & Daughter Board Assemblies (without Stuffing Tubes)
01014-350	01014-750	N/A	NIM-2ST2 (2 Multimode ST Fiber) Full-Sized Black Enclosure and Wiring Hub & Daughter Board Assemblies (without Stuffing Tubes)
01014-371	01014-771	N/A	NIM-2STS1 (1 Single Mode ST Fiber) Full-Sized Black Enclosure and Wiring Hub & Daughter Board Assemblies (without Stuffing Tubes)
11025-200	11125-200	11129-200	NIM-2 Active Board and Gray Cover
11025-250	11125-250	11129-250	NIM-2 Active Board and Black Cover
11025-260	11125-260	11129-260	NIM-2 Active Board and Metal Cover
11053-100	11131-100	Uses NIM-2 DB	NIM-2 Daughter Board
11053-101	11131-101	Uses NIM-2 DB	NIM-2TF Daughter Board
11053-104	N/A	N/A	NIM-2LC1 Daughter Board
11053-105	N/A	N/A	NIM-2LC1TF Daughter Board
11053-108	N/A	N/A	NIM-2LC2 Daughter Board
11053-109	N/A	N/A	NIM-2LC2TF Daughter Board
11053-112	N/A	N/A	NIM-2LC3 Daughter Board
11053-113	N/A	N/A	NIM-2LC3TF Daughter Board
11053-116	N/A	N/A	NIM-2LC4 Daughter Board
11054-100	11128-100	N/A	NIM-2ST1 Daughter Board
11054-103	11128-101	N/A	NIM-2ST2 Daughter Board
11054-106	11128-102	N/A	NIM-2STS1 Daughter Board
11054-107	11128-103	N/A	NIM-2STS2 Daughter Board

NIM-2 Part Naming Convention Reference

NIM-2 Part Name	Description
NIM-2[LCX, STY][TF]	Specify Build Options as Follows:
	LCX with X = 1,2,3,4 indicates number of LC ports (balance of ports are copper)
	STY with Y = 1,2 indicates number of ST ports (balance of ports are copper)
	May not have LC and ST Ports on same module
	TF indicates automatic port-failover on power loss (not available on modules with ST ports)
	Examples:
	NIM-2 (Base Model – 1 Internal Port, All Copper External Ports; No Failover)
	NIM-2LC2TF (1 Internal Port, 3 Copper Ports, 2 LC Fiber Ports, Port Failover)