

PRODUCT NOTICE

PN# 26-11 | October 2026

Aircore EC+: CIM-CIO Terminal Block Update

Summary

Based on customer feedback, Infinitum is updating the J5 terminal block on the CIM-CIO board for Aircore EC+ (non-AFE) motors from a 16-pin to an 18-pin version, beginning with November 2026 shipments. The updated design provides separate RS 485 IN and OUT terminals to simplify Modbus RTU and BACnet MS/TP wiring and troubleshooting, and uses high-temperature components for improved reliability. To support the transition, Infinitum is offering a CIM Hardware Kit to adapt existing wiring harnesses and adding identification labels to affected motors and cartons.

This change applies to Aircore EC+ (non-AFE) motors only. Aircore EC+ (AFE) motors already use an 18-pin CIM-CIO board.

ACTION REQUIRED: Before installing an updated motor, verify existing wiring harness compatibility. The new 18-pin terminal block accepts 24–20 AWG conductors; the previous 16-pin version accepted 24–16 AWG. Harnesses with larger conductors may need adaptation using the separately ordered CIM Hardware Kit. See Compatibility and Ordering below.

Key Updates

Change	Description
18-pin terminal block	Replaces the 16-pin J5 terminal block on the CIM-CIO board with an 18-pin version that accepts wire 24-20 AWG
RS 485 wiring terminals	Provides separate IN and OUT terminals for Modbus RTU and BACnet MS/TP wiring to simplify installation and troubleshooting
High-temperature components	Uses high-temperature components for improved reliability.
Silkscreen terminology	Updates the CIM board silkscreen to use consistent terminal terminology. GND has been updated to COM.

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 <i>Figure 1: CIM Hardware Kit</i>	Adapts existing wiring harnesses to the 18-pin terminal block.
Motor & Carton Labeling	Adds labels to motors and cartons to identify units with 18-pin CIM-CIO boards.

Comparison: CIM 16-pin versus 18-pin versions

Attribute	CIM 16-pin	CIM 18-pin
Applicable products	Aircore EC+ (non-AFE), AE SKU	Aircore EC+ (non-AFE), AE SKU Aircore EC+ (AFE), AM SKU
Availability	Through October 2026	Starting November 2026
Wiring terminals	16 pin. RS 485 IN and OUT wiring shares combined terminals. Accepts wire 24-16 AWG.	18 pin. RS 485 IN and OUT wiring uses separate terminals. Accepts wire 24-20 AWG.
Terminal labels	AE SKU uses adhesive labels on the touch plate.	AE SKU uses adhesive labels on the touch plate. AM SKU uses the CIM board silkscreen.
CIM board identification	Version Visible Identification	Version Visible Identification

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Motor and carton labeling	No additional labeling.	Additional motor and carton WIRING NOTICE labels identify units with 18-pin CIM-CIO boards.  Figure 2: Motor 18-pin Caution Label  Figure 3: Carton 18-pin Caution Label
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Compatibility

The 18-pin CIM-CIO board is compatible as a replacement for the 16-pin board. Note the following:

- The 16-pin CIM-CIO board is no longer available as a spare part.

Customers can use the CIM Hardware Kit to adapt the existing wiring harnesses to the 18-pin board.

Ordering

Customers adapting existing wiring harnesses to the 18-pin configuration can order the CIM Hardware Kit separately by requesting it via the support@goinfinitum.com email.

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Item	Details
Part number	CIM-Hardware-Kit
Pricing	Free of charge through December 31, 2026; \$50 per kit starting January 1, 2027.
Lead time	2 weeks

The kit includes the following:

- Five WAGO splicing connectors, model 221-2401, rated for 20–12 AWG solid and 18–12 AWG stranded conductors, to splice the 20 AWG wiring harness to the 18-pin CIM-CIO board.
- One 60" roll of solid 20 AWG conductor.
- One adhesive pad to secure splicing connectors to the motor touch plate.

Installation and Programming

Update wiring harnesses to the 18-pin configuration as described in the Aircore EC+ IOM Manual. For kit installation, follow the CIM Hardware Kit Installation Instructions.

Documentation	Resources
Aircore EC+ IOM Manual	Available here
CIM Hardware Kit Installation Instructions	Available here .

Frequently Asked Questions

Question	Answer
Q1. How do I identify whether my Aircore EC+ motor has a 16-pin or 18-pin CIM-CIO board?	Use any of the following methods: 1. Check the carton for the additional label (Figure 3). 2. Check the motor for the additional label (Figure 2). 3. Open the drive access cover and count the terminals on the CIM-CIO board.

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Q2. Where can I find technical information for the 18-pin CIM-CIO board?	Refer to the Aircore EC+ IOM Manual here .
Q3. Why is Infinitum making this change?	Based on customer feedback, Infinitum is updating the CIM-CIO terminal block to simplify communication wiring and troubleshooting. The 18-pin design provides separate RS 485 IN and OUT terminals and uses high-temperature components for improved reliability.
Q4. Is the 16-pin CIM-CIO board available as a spare part?	No. The 18-pin board is compatible as a replacement, and customers can use the CIM Hardware Kit to adapt existing wiring harnesses.
Q5. Does this change affect Aircore EC+ with AFE motors?	No. Aircore EC+ (AFE) motors already use an 18-pin CIM-CIO board

Contact

For more information on this Product Notice or for any support needs:

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