# PACS Controllers

## How to Order Guide

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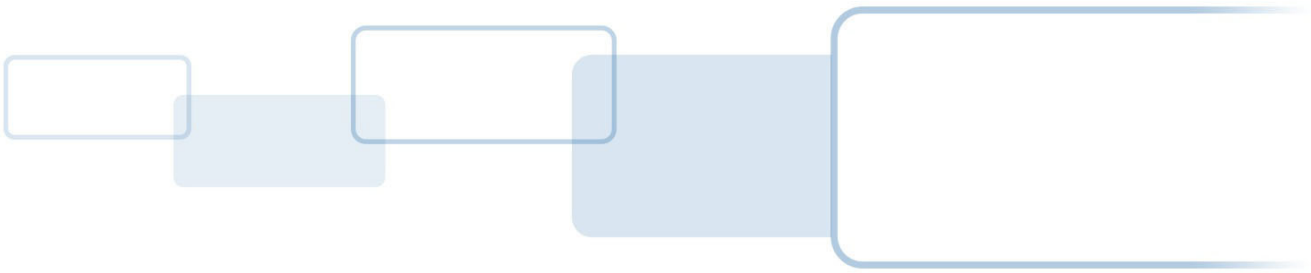

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## Revision History

| Date | Description | Revision |
|---|---|---|
| July 2020 | Updated Config Option code for VertX EVO and VertX Module part numbers.<br>Updated EMEA contact address. | C.8 |
| March 2020 | Added HID Aero. | C.7 |
| July 2019 | Removed EHR40 and EHRP40 Spacer. | C.6 |
| June 2015 | Removed Hi-O only offering and EVM module. | C.5 |
| August 2014 | Removed VertX and EDGE. | C.4 |

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# HID Aero™ Intelligent Controller and IO Modules

The HID Aero Controller product line provides a complete and fully functional hardware, firmware, software library and tool infrastructure for access control software providers. This product line is ideal for access control providers who do not want to incur the ongoing costs of designing, manufacturing and maintaining panel hardware along with the critical access control logic that commonly resides locally in access control panels. The HID Aero Controller product line is the successor to HID's VertX® and EDGE®, and is based on HID Mercury technology, a panel technology supporting 4 million+ panels installed globally since the early 1990s.

| HID Aero Controller | Part Number |
|---|---|
| **HID Aero X1100 Intelligent Controller**<br>On-board support for 2 doors and up to 2 Wiegand or 4 OSDP readers.<br>Controls HID Aero X100, X200 and X300 and legacy HID VertX V100, V200 and V300. | X1100A |
| **HID Aero X100 Door/Reader Interface**<br>On-board support for 2 doors and up to 2 Wiegand or 4 OSDP readers.<br>Must connect to an HID Aero X1100. | X100A |
| **HID Aero X200 Input Monitor Interface**<br>On-board support for 16 general purpose inputs.<br>Must connect to an HID Aero X1100. | X200A |
| **HID Aero X300 Input Monitor Interface**<br>On-board support for 12 general purpose outputs.<br>Must connect to an HID Aero X1100. | X300A |

# VertX EVO® Controller Part Numbers and Options

Production released product.

| VertX® Controller Description | Base Part No. | Rev. No* | Use | Hardware Configuration | Config. Option | Access Control API | Custom[1] |
|---|---|---|---|---|---|---|---|
| **VertX EVO V1000 Master Controller** 250,000 cardholders* | 71000 | B | E = Embedded or other | P0 = PCB Assembly (plastic enclosure back plate and cover) | N0 | 1A = OPIN API | XXXXXX |
| **VertX EVO V2000 2 Door Controller** 250,000 cardholders* | 72000 | B | E = Embedded or other | P0 = PCB Assembly (plastic enclosure back plate and cover) | N0 | 1A = OPIN API | XXXXXX |

*Default memory configuration
[1]Consult Factory.

# VertX Module Part Numbers and Options

Works with VertX EVO V1000 and VertX V1000.

| VertX Panel Description | Base Part No. | Rev. No* | Use | Hardware Configuration | Config. Option | Custom[1] |
|---|---|---|---|---|---|---|
| **VertX V100 Reader/Door Interface** 2 Doors with 1 Reader per door or 1 Door with 2 Readers | 70100 | A | E = Embedded or other | P0 = PCB Assembly (plastic enclosure back plate and cover) | N0 | XXXXXX |
| **VertX V200 Input Monitor Interface** 16 Inputs, 2 Outputs | 70200 | A | E = Embedded or other | P0 = PCB Assembly (plastic enclosure back plate and cover) | N0 | XXXXXX |
| **VertX V300 Output Control Interface** 12 Outputs, 2 Inputs | 70300 | A | E = Embedded or other | P0 = PCB Assembly (plastic enclosure back plate and cover) | N0 | XXXXXX |

*Revision numbers and availability are subject to change without notice.
[1]Consult Factory.

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# EDGE EVO® Standard Controller Host Part Numbers and Options

Standard EDGE EVO products work with discrete connections to traditional door hardware and Wiegand readers.

| EDGE EVO Standard Controller Products | Base Part No. | Rev. No* | Color | Hardware Configuration | Configuration | Access Control API | Custom[1] |
|---|---|---|---|---|---|---|---|
| **EH400-K Standard Controller**<br>Single door, IP-based controller for Host-based systems. Single physical package. Door inputs/outputs are 4 external inputs, 2 outputs; on-board optical tamper (standard mount). One Wiegand/Clock-and-Data reader interface. For use indoor or outside in weatherproof enclosure. US single-gang, US double-gang or EU/APAC 60mm mount. | 82000 | C | K = Black | E = Externally-mounted reader | 1A = OPIN API | | XXXXXX |
| **EHR40-K Standard Controller/Reader and Module**<br>Single door, IP-based controller with integrated R40 iCLASS® reader for host-based systems. Two physical packages; IP-based reader for mount at access point and "Door Module" with interface to 4 external inputs, 2 outputs; optical tamper. Second reader possible using additional IO interface module (EWM-M or EDWM-M). For indoor use. Door Module mounted in secure location. US Single-gang or EU/APAC 60mm mount. | 82120 | C | K = Black | I = Integrated controller/reader, with segregated module (separate physically installed device) containing discrete IO | 000 = LED normally Red, Flash Green and beep on card read | 1A = OPIN API | XXXXXX |
| **EHR40-L Single-Output Controller/Reader and Module**<br>Single door, IP-based controller with integrated R40 iCLASS reader for host-based systems. Two physical packages; IP-based reader for mount at access point and "Lock Module" with interface single (1) lock output. For indoor use. Door Module mounted behind reader in US Single-gang box, in hollow door frame or other secure location. Reader is US Single-gang or EU/APAC 60mm mount. | 82120 | C | K = Black | L = Integrated controller/reader, with segregated module (separate physically installed device) containing single discrete lock output | 000 = LED normally Red, Flash Green and beep on card read | 1A = OPIN API | XXXXXX |
| **EHRP40-K Standard Controller/Reader and Module**<br>Single door, IP-based controller with integrated RP40 multiCLASS® reader for host-based systems. Two physical packages; IP-based reader for mount at access point and "Door /Wiegand Module" with interface to 4 external inputs, 2 outputs and one Wiegand/Clock-and-Data reader interface; Second reader possible using Wiegand Optical tamper (standard mount). For indoor use. Door/Wiegand Module mounted in secure location. US Single-gang or EU/APAC 60mm mount. | 82125 | C | K = Black | I = Integrated controller/reader, with segregated module (separate physically installed device) containing discrete IO and Wiegand reader interface for second reader | 000 = LED normally Red, Flash Green and beep on card read | 1A = OPIN API | XXXXXX |

* Default memory configuration

[1]Consult Factory.

# EDGE EVO IO Interface Module Part Numbers and Options

EDGE EVO IO Interface Modules enable communication between EDGE EVO controllers to discrete IO and Wiegand readers.

| EDGE EVO IO Interface Module | Base Part No. | Rev. No* | Color | Hardware Configuration |
|---|---|---|---|---|
| **EDWM-M Door and Wiegand Module**<br>The "Door and Wiegand Module" interfaces the EDGE EVO controller to discrete IO and one (1) Wiegand or Clock-and-Data reader and includes 4 external inputs, 2 outputs and includes an on-board optical tamper (standard mount). For use indoor or outside in a weatherproof enclosure. IO can be used to interface to door components or for more general purpose use. | 82363 | A | K = Black | M = Mountable on US single-gang, EU/APAC 60mm electrical box |
| **EDM-M Door Module**<br>The "Door Module" interfaces the EDGE EVO controller to discrete IO. There are 4 external inputs, 2 outputs; and includes an on-board optical tamper (standard mount). For use indoor or outside in weatherproof enclosure. IO can be used for general purpose. | 82342 | A | K = Black | M = Mountable on US single-gang, EU/APAC 60mm electrical box |
| **EWM-M Wiegand Module**<br>The "Wiegand Module" enables controller interface to one (1) Wiegand/Clock-and-Data reader. For use indoor or outside in weatherproof enclosure. | 82360 | A | K = Black | M = Mountable on US single-gang, EU/APAC 60mm electrical box |
| **EIM-M Input Module**<br>The "Input Module" interfaces the EDGE EVO controller to discrete inputs. There are 4 external inputs and including an on-board optical tamper (standard mount). For use indoor or outside in weatherproof enclosure. IO is always general purpose. | 82340 | A | K = Black | M = Mountable on US single-gang, EU/APAC 60mm electrical box |
| **ELM Lock Module**<br>The "Lock Module" interfaces the EDGE EVO controller to a single (1) output interface. Primary use is single (1) lock output. For mount in US single-gang electrical box, hollow door frame or other location. Output can be re-purposed for general purpose. | 82301 | A | N = Small package to mount inside a US single-gang electrical box, hollow door frame or other location. | |

*Default memory configuration

# EDGE EVO Spacer and Reverse Mounting Accessories

EDGE EVO spacer and reverse mounting accessories to be used with EDGE EVO controllers, controller/readers and interface modules.

| EDGE EVO Spacer Accessories | Part No. |
|---|---|
| **EH400-K Spacer**<br>EH400-K spacer/flush-mount spacer with 0.5″ circular knockouts. US single-gang, US double-gang or EU/APAC 60mm mounting holes. | 82100AKD |
| **Mountable Module (-M) Spacer**<br>Mountable modules (EDWM-M, EDM-M, EWM-M, EIM-M) flush-mount spacer with 0.5″ circular knockouts. US single-gang or EU/APAC 60mm mounting holes. | 82100AKC |

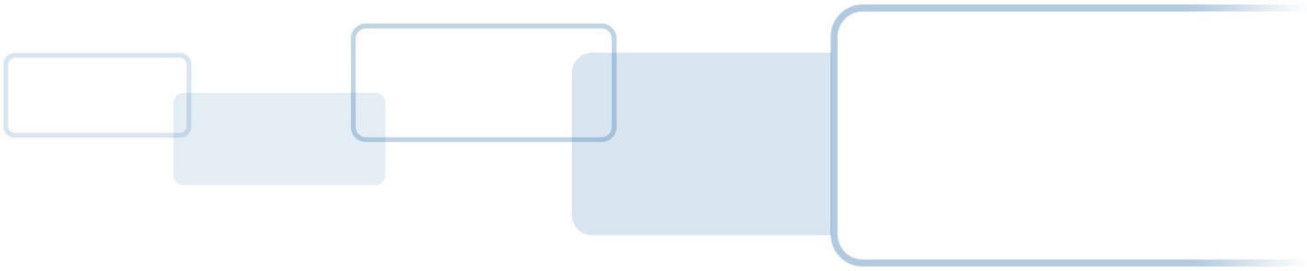
| EDGE EVO Reverse Mounting Accessories | Part No. |
|---|---|
| **EH400-K Reverse Mounting Plate**<br>EH400-K reverse-mount kit. For mounting in cabinets with connectors facing the cabinet opening (toward installer). | 82100AKD-R |
| **EH400 Reverse Mounting Plate**<br>EH400 reverse-mount kit. For mounting in cabinets with connectors facing the cabinet opening (toward installer). | 82100AKB-R |
| **Mountable Module Reverse Mounting Plate**<br>Mountable modules (EDWM-M, EDM-M, EWM-M, EIM-M) reverse-mount kit. For mounting in cabinets with connectors facing the cabinet opening (toward installer). | 82100AKC-R |

# EDGE EVO Mounting Plate Accessories

EDGE EVO mounting plate accessories to be used with EDGE EVO controllers and interface modules. These parts are included with controller, reader/controller and module products, and can be ordered to replace mounting plates if required.

| EDGE EVO Mounting Plate Accessory | Part No. |
|---|---|
| **EH400-K Mounting Plate**<br>EH400-K mounting plate used to mount the product to US single-gang, US double-gang or EU/APAC 60mm mounting holes. | 82000-126-01 |
| **EHR40/EHRP40 Mounting Plate**<br>EHR40/EHRP40 mounting plate used to mount the product to US single-gang or EU/APAC 60mm mounting holes. | 82000-114-01 |
| **Mountable Module Mounting Plate**<br>Mountable modules (EDWM-M, EDM-M, EWM-M, EIM-M) mounting plate used to mount the product to US single-gang or EU/APAC 60mm mounting holes. | 82000-130-01 |

# EDGE EVO Installation Accessory Kits

EDGE EVO installation accessory kits to be used with EDGE EVO controllers and interface modules. These parts are included with controller, reader/controller and module products, and can be ordered to replace mounting screws, male terminal strip connectors and installation manual if required.

| EDGE EVO Installation Accessory Kits | Part No. |
|---|---|
| **EH400-K Installation Accessory Kit**<br>Includes mounting screws, male terminal strip connectors and installation manual. | 82000-342-01 |
| **EH400 Installation Accessory Kit**<br>Includes mounting screws, male terminal strip connectors and installation manual. | 82000-325-01 |
| **EHR40/EHRP40 Installation Accessory Kit**<br>Includes mounting screws, male terminal strip connectors and installation manual. | 82000-325-02 |
| **EDWM-M Door and Reader Module Accessory Kit**<br>Includes mounting screws, male terminal strip connectors and installation manual. | 82000-342-02 |
| **EDM-M Door Module Accessory Kit**<br>Includes mounting screws, male terminal strip connectors and installation manual. | 82000-342-03 |
| **EWM-M Wiegand Module Accessory Kit**<br>Includes mounting screws, male terminal strip connectors and installation manual. | 82000-342-05 |
| **EIM-M Input Module Accessory Kit**<br>Includes mounting screws, male terminal strip connectors and installation manual. | 82000-342-04 |