

Synergis Supported Hardware ⁰							
Feature	VertX V2000	EdgePlus E400	EdgeReader ER40 & ERW400	VertX V1000	VertX V100	VertX V200	VertX V300
Product Type	Door Controller	Door Controller	Door Controller	Master Controller	Door Interface Module	Input Module	Output Module
Basic Functionality							
Total Readers Supported	2	1	1	64 w/ qty 32 V100	2	-	-
Card In/Rex Out	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-	<input type="checkbox"/>	-	-
Card In/Card Out	<input type="checkbox"/>	No	No	-	<input type="checkbox"/>	-	-
HID Prox Readers Supported	<input type="checkbox"/>	<input type="checkbox"/>	No ⁶	-	<input type="checkbox"/>	-	-
HID iCLASS Readers Supported	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> iCLASS R40 and RW400 only	-	<input type="checkbox"/>	-	-
Indoor reader(s) supported	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-	<input type="checkbox"/>	-	-
Outdoor reader(s) supported	<input type="checkbox"/>	<input type="checkbox"/>	No ⁵	-	<input type="checkbox"/>	-	-
Cardholders Supported	22,000	22,000	22,000	22,000	-	-	-
Max. Cardholders	125,000 ²	22,000	22,000	125,000 ²	-	-	-

Supported							
Total Transactions Stored Offline	5,000	5,000	5,000	5,000	-	-	-
Card Data Formats Supported	26-128 bits	26-128 bits	26-128 bits	26-128 bits	-	-	-
Card AND Pin Support	<input type="checkbox"/>	<input type="checkbox"/>	No ¹	<input type="checkbox"/> w/ V100	<input type="checkbox"/>	-	-
Hard/Strict Anti-Passback	<input type="checkbox"/>	No	No	<input type="checkbox"/>	<input type="checkbox"/>	-	-
Elevator Control	<input type="checkbox"/> up to 4 floors	<input type="checkbox"/> up to 2 floors	No	<input type="checkbox"/> w/ V100/V200/V300	used w/ V1000	used w/ V1000	used w/ V1000
IO Functionality							
Total Input Points	7	5	5	5	7	16 + 3	2 + 3
Total Output Points (Relays)	4	2	2	2	4	2	12
IO Linking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-	-	-
Supervised Inputs Supported	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AC Fail Monitor input (included in total input points count)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Battery Fail Monitor input (included in total input points count)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Tamper input (included in total input points count)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Power lock device directly	No	<input type="checkbox"/>	<input type="checkbox"/>	-	No	-	-
Power Requirements							
Power Requirements	12-16 VDC	12-16 VDC or PoE	12-16 VDC or PoE	12-16 VDC	9-18 VDC	9-18 VDC	9-18 VDC
Power-Over- Ethernet (PoE) Supported	No	<input type="checkbox"/>	<input type="checkbox"/>	No	No	No	No
Battery Charger	No	No	No	No	No	No	No
Installation and Wiring ⁴							
Max. distance (IP)	300 ft	300 ft	300 ft	300 ft	-	-	-
Max. distance (RS-485)	-	-	-	4000 ft per network	4000 ft to host	4000 ft to host	4000 ft to host
RS-485 wiring (2- vs. 4-wire)	-	-	-	2-wire	2-wire	2-wire	2-wire
Max. distance (Wiegand)	500 ft	500 ft	Not Applicable Integrated iCLASS Readers	-	500 ft	-	-
Max. distance (ouputs)	500 ft	500 ft	500 ft	500 ft	500 ft	-	500 ft
Max. distance (inputs)	500 ft	500 ft	500 ft	500 ft	500 ft	500 ft	-

Max. distance (RS-232)	-	50 ft	50 ft	-	-	-	-
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Communication							
Connects to a Master Controller	No	No	No	No	☐	☐	☐
Primary Communication	IP	IP	IP	IP	RS-485	RS-485	RS-485
Secondary Communication	None	Dialup Modem ³ via RS-232	Dialup Modem ³ via RS-232	Dialup Modem ³ via RS-232	None	None	None
Network Speed	10/100 Mbps	10/100 Mbps	10/100 Mbps	10/100 Mbps	-	-	-
Network Assignment	DHCP or Static	DHCP or Static	DHCP or Static	DHCP or Static	-	-	-

Legend: - Not Available or Not Applicable

✓ Included

Notes: 0 You can also refer to manufacturer's datasheets and installation manuals for latest information.

- 1 EdgeReader includes an integrated reader (iCLASS R40 on the ER40 and the iCLASS RW400 on the RW400). Keypad cannot be added.
- 2 Requires memory upgrade modules. Duplicate Storage used, so 125,000 or half of the available memory for 250,000 cardholders is used. This allows for uninterrupted service.
- 3 Requires integration of VertX dialup modem functionality. Currently not available.
- 4 Consult hardware manufacturer's installation manuals for more information. Minimum wire gauge depends on cable length and current requirements.
- 5 All devices (VertX or Edge) can only be installed indoors. Since the EdgeReader ER40 and ERW400 include an integrated reader, readers installed outdoors are not supported.

6 EdgeReader ER40 and ERW400 include an integrated iCLASS reader. Prox readers not supported.