PRODUCT COMPARISON CHART

iCLASS SE® Express Readers vs. iCLASS SE® Readers

	iCLASS SE® Express R10	iCLASS SE® R10 / RP10
Base Part Number	**900NxxxxF**	**900xxxxxE**
Purpose	PACS applications which require a secure, focused and cost-effective reader/ credential solution	PACS applications which require highly secure and flexible credential compatibility and/or alternative form factor with additional options (e.g. keypad and wall switch)
Image		
2.4 GHz Credential Compatibility	Secure Identity Object (SIO) on Mobile IDs (Bluetooth Smart)	
Mounting	Mullion	
Dimension (w x l x d)	1.9″ x 4.1″ x 0.9″ (4.8 cm x 10.3 cm x 2.3 cm)	
Color	Black	
Velocity Checking Configuration Option[1]	Yes	
Intelegent Power Management Configuration Option[2]	Yes	
Reader Management	HID Reader Manager® Mobile App for HID Mobile Access® / Panel Communication infield upgrade, configuration, firmware upgrade and diagnostics	
Environmental Rating	Indoor/Outdoor IP55; IP65 if installed with optional gasket (PN: IP65GSKT-R10)	
Housing Material	UL94 Polycarbonate	
Warranty	Limited Lifetime	
Temperature Rating	-35°C to +66°C	
Metal Tuning Configuration Option[3]	Yes	No
Spacer Option	Black - 0.5 in (12.7mm) PN with Bluetooth: 6132AKB-M PN without Bluetooth: 6132AKB	Black - 0.5 in (12.7mm) PN with and without Bluetooth: 6132AKB
Connector Type	Pigtail only	Terminal Block or Pigtail
LED and Buzzer Control Conductors	Buzzer and Green LED	Buzzer, Green LED and Red LED
Idle LED Options	Red or Blue	Red, Green, Blue, Amber, Cyan, Magenta, White or Host Controlled

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Weight	92g (Pigtail)	113g (Pigtail) 84g(Terminal Block)
Operating Voltage Range	12VDC	5-16VDC
Peak Current Draw - Standard Power or IPM Mode[2] (mA)	250 @ 12V	200 @ 16V
Communication Options	Wiegand	Wiegand, Clock-and-Data, Open Supervised Device Protocol (OSPD) via RS485
13.56 MHz Credential Compatibility	• Secure Identity Object™ (SIO) on Seos® • ISO14443A (MIFARE CLASSIC, MIFARE DESFire EV1 & MIFARE DESFire EV2) CSN"	• Secure Identity Object™ (SIO) on iCLASS® Seos®, iCLASS SE®/SR, MIFARE DESFire EV1 and MIFARE® Classic (On by Default) • MIFARE Classic and MIFARE® DESFire® EV1 custom data models • Standard iCLASS Access Control Application • ISO14443A (MIFARE CLASSIC, MIFARE DESFire EV1 & MIFARE DESFire EV2) CSN • ISO14443B CSN, ISO15693 CSN • FeliCa™4 CSN, CEPAS4 CSN or CAN"
Certifications	UL294/cUL (US), FCC Certification (US), IC (Canada), CE (EU), RCM (Australia, New Zealand), RoHS	UL294/cUL (US), FCC Certification (US), IC (Canada), CE (EU), RCM (Australia, New Zealand), SRRC (China), KCC (Korea), NCC (Taiwan), iDA (Singapore), RoHS, MIC (Japan)
Alternative Form Factors Available	No	Yes - R15(Mullion), R40 (Wall Switch), RK40 (Keypad Wall Switch)
125 kHz Credential Compatibility	No	Yes (RP10 only) - HID Prox®, AWID, Indala®, EM4102

1 Velocity Checking Configuration Option:
Velocity checking is used to detect a brute force attack on a reader either by trying various key materials or by detecting rejection of panel data by the panel (i.e. Wiegand attack on prox). Each time the Velocity Check Timer expires, the number of media processed is compared to the number of media accepted by both the panel and the reader. If an attack is not detected, the counters and timer are reset.

2 Intelligent Power Management Configuration (IPM) Option:
When IPM mode is configured to be on, the reader is affected in several ways:
-After a successful card read, the IPM timer kicks off. At this point the reader is still operating in the default state.
-Once the Threshold time has been reached, the reader activates IPM mode and the LED is turned off (black), and the RF Poll cycle is set to the Duty Cycle value provided in the IPM configuration item.
-The reader stays in this mode with a reduced poll cycle and the LED off, until a valid card is read again. At which point the IPM timer is reset and the reader is back at the first step again.

3 Metal Tuning Configuration Option:
-When metal tuning is configured to be on, the credential read performance will be optimized to improve performance on metal environments (also resulting in reduced performance in non-metal enviroments).

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