tyco | Innometriks

Data Sheet

Cheetah SE
High Assurance Smart Card Reader

Key Features

- Low cost high assurance reader for installations requiring two-factor authentication
- Easy to deploy, flexible and highly secure authentication solution for physical access
- Web-based, centralized reader management
- Supports Software House RM reader functionality
- Strong OSDP Secure Channel RS-485 connectivity
- Contactless and contact/ contactless models available
- Indoor and outdoor configurations

Innometriks Cheetah SE High Assurance Smart Card Reader is a low cost, compact, highly secure, keypad reader designed to meet implementation paths recommended by NIST SP800-116, which provides Federal agencies and non-governmental organizations with risk-based guidelines for the incremental rollout of PIV-enabled access points. Cheetah SE Reader's advanced architecture allows seamless integration with a range of existing physical access control systems (PACS) for authentication and network environments for administration.

Intelligent Reader Management

The Cheetah SE Reader network-based services allow you to manage enterprise installations from a central location using a secure browser connection. You can also manage all network-based firmware upgrades, use configuration files to easily set up and deploy large systems ensuring correct settings on each reader, and remotely manage licenses.

Certified for Government Installations

The Cheetah SE Reader's U.S. Government credential configuration provides tiered authentication levels that meet the SP800-116 implementation guidelines. Tested and approved, the Cheetah SE Reader is FIPS 201-certified, and is able to read CAC (Common Access Card) and TWIC (Transportation Worker Identification Credential) cards. This reader empowers agencies to realize the full potential of Government issued credentials.

Johnson Controls

Multi-Technology Smart Card Authentication

The Cheetah SE Reader's smart card configuration can be tailored to a wide variety of card types and card data formats including FICAM/FIPS-201 cards as well as MIFARE, DESFire, DESFire EV1 and EV2, and iCLASS.

Multiple Communication Interfaces

The Cheetah SE Reader supports multiple communication protocols including Ethernet, RS-485, Dual Supervised Inputs, Relay NO/NC, and TTL Out for a wide variety of communication options depending on the system architecture.

Supports Software House RM Reader Functionality

The Innometriks Cheetah SE supports Software House RM Reader functionality for new and existing installations. When using RM Readers, grouping inputs and doors into intrusion zones allows you to easily arm and disarm alarm monitoring points in a defined area which may include an entire facility or a portion of the facility. You can lock and unlock groups of doors while displaying their current mode and status. With simple RM Reader keypad commands, you can remotely activate cameras, doors, and other events as well as trigger a duress call right from a reader keypad connected to a Software House iSTAR Ultra door controller. Keypad commands can be configured to require card presentation and/or a PIN to validate the command.

Advanced Biometric Authentication

With the Cheetah SE Bio model biometric enrollments are linked to a card and synced to appropriate readers for dual-factor authentication and access. Alternately, templates may be stored on the card itself and read through a contactless transaction during an authentication.

Specifications

Physical	
Dimensions (H x W x D)	Cheetah SE: 16.14 x 10.2 x 4.72 cm (6.36 x 4.02 x 1.86 in) Cheetah SE Bio: 16.14 x 15.4 x 7.62 cm (6.36 x 6.07 x 3.0 in)
Weight	Cheetah SE: 0.2 kg (0.5 lbs) Cheetah SE Bio: 0.4 kg (1.0 lbs)
Environmental	
Operating Temperature	Cheetah SE: -35°C to 66°C Cheetah SE Bio: 0°C to 50°C
Operating Relative Humidity	0-95% RH non-condensing
Electrical	
Power	Cheetah SE: 12VDC @600 mA or 24VDC @ 300 mA Cheetah SE Bio: 12VDC @755mA or 24VDC @ 355 mA
Onboard Inputs/Outputs	
Inputs	2 supervised
Outputs	One dry contact relay (30VDC @ 1A); 5V output (500mA max); Optical isolated 5V output (50mA max), Ethernet for configuration only
Regulatory	
Access Control	UL-294 (Cheetah SE - outdoor rating; Cheetah SE Bio - indoor rating), CSA C22.2 No. 205 (Canada)
EMC (Immunity)	EN 50130-4, EN 55024
Emissions	FCC Part 15 Class A, EN 55022, EN 55032
Environmental	RoHS, WEEE
Weatherproof	Cheetah SE: IP65 (IP33 for contact version) Cheetah SE Bio: IP43 (IP33 for contact version)
Vandalism	IK7

Models and Properties

Cheetah SE Contactless Only	Cheetah SE Contact + Contactless	Cheetah SE Bio Biometric Only	Cheetah SE Bio Biometric + Contactless
PIV Authentication Mechanism	PIV Authentication Mechanism	PIV Authentication Mechanism	PIV Authentication
Free Read CHUID	Free Read CHUID	Free Read CHUID	Free Read CHUID
Card Authentication Challenge	Card Authentication Challenge	Card Authentication Challenge	Card Authentication Challenge
	PKI/PAK/PIV Authentication Challenge		PKI/PAK/PIV Authentication Challenge
	PIV PIN Verification		PIV PIN Verification
		Biometric Authentication	Biometric Authentication

Ordering Information

Model Numbers	Description
INN-SECHTA-RF	Cheetah SE High Assurance Smart Card Reader, contactless, indoor
INN-SECHTA-CT	Cheetah SE High Assurance Smart Card Reader, contact and contactless, indoor
INN-SECHTA-RFO	Cheetah SE High Assurance Smart Card Reader, contactless, outdoor
INN-SECHTA-CTO	Cheetah SE High Assurance Smart Card Reader, contact and contactless, outdoor
INN-SECH-LMBIO	Cheetah SE Biometric High Assurance Smart Card Reader, contactless with Lumidigm M320 biometric, outdoor
INN-SECH-LMBIO-C	Cheetah SE Biometric High Assurance Smart Card Reader, contact and contactless with Lumidigm M320 biometric, outdoor
INN-SECH-SGBIO	Cheetah SE Biometric High Assurance Smart Card Reader, contactless with Secugen U20 biometric, outdoor
INN-SECH-SGBIO-C	Cheetah SE Biometric High Assurance Smart Card Reader, contact and contactless with Secugen U20 biometric, outdoor

CERTIFIED

About Johnson Controls

Johnson Controls is a global diversified technology and multi-industrial leader serving a wide range of customers in more than 150 countries. Our 120,000 employees create intelligent buildings, efficient energy solutions, integrated infrastructure and next generation transportation systems that work seamlessly together to deliver on the promise of smart cities and communities. Our commitment to sustainability dates back to our roots in 1885, with the invention of the first electric room thermostat.

For additional information, please visit www.swhouse.com or follow Software House on LinkedIn, Twitter, and Facebook.

IN1162-DS-202001-R02-HS-EN