



15370 Barranca Parkway  
Irvine, CA 92618  
USA

# SmartID™

## Generic Configuration Guide

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## Summary

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The Generic Configuration Guide contains open format configurations for pairing with SmartID, SmartTRANS and SmartTOUCH readers to create a complete reader solution.

Format configurations are an essential building block of the SmartID reader, and required for all SmartID reader orders. Through format configurations SmartID readers are tailored to customer requirements.

For reader customization beyond the generic configurations, reference the 13.56 MHz How to Order Guide, SmartID MIFARE and DESFire Reader Custom Format Request Form.

Formats are specific for one to many reader hardware and applications. Together, a hardware and application make up a part number (for example, Hardware SmartID Mullion + Application MIFARE = Part Number 8030DSCM) An application is the set of procedures downloaded inside of the reader that serves a specific purpose (for example, read a MIFARE or DESFire card, or accept serial commands for a host driven read/write application). A configuration is used by the application to adapt reader behavior to customer specific needs (for example, output a MIFARE card serial number in 26 bits only, read application 0x300 from a DESFire card, or configure a serial driven reader for a RS485 hardware interface).

Included in this document are format configurations for the following reader hardware and applications:

- SmartID and SmartTRANS HID MIFARE Application
- SmartID, SmartTRANS and SmartTOUCH MIFARE Application
- SmartID, SmartTRANS and SmartTOUCH DESFire Application
- SmartID and SmartID Desktop with RS232, T=CL Application
- SmartID Desktop with USB, PC/SC Application

## Format Configurations

### SmartID HID MIFARE Application

Applicable Part Numbers (Reader / Application):

- 8030DSHC SmartID S10 Read Only Reader, HID MIFARE
- 8031DSHC SmartID SK10 Read Only Keypad Reader, HID MIFARE

Format Number	Card Read Mode	CSN Wiegand Output Mode	Beeper/LED Configuration	Keypad Output (if applicable)	Equivalent FlexSmart Part Suffix
02FM-0277	HID Data Only	N/A	Beep OFF, Left LED normally OFF, Right LED GREEN on read on read	4-bit	607xAKN 03 0 0 0 0
02FM-0278	HID Data Only	N/A	Beep OFF, Left LED normally OFF, Right LED GREEN on read on read	8-bit	607xAKN 03 0 0 0 9
02FM-0239	HID Data Only	N/A	Beep OFF, Left LED normally RED, Right LED GREEN on read on read	4-bit	607xAKN 01 0 0 0 0
02FM-0242	HID Data Only	N/A	Beep OFF, Left LED normally RED, Right LED GREEN on read on read	8-bit	607xAKN 01 0 0 0 9
02FM-0259	HID Data Only	N/A	Beep ON, Left LED normally OFF, Right LED GREEN on read on read	4-bit	607xAKN 02 0 0 0 0
02FM-0260	HID Data Only	N/A	Beep ON, Left LED normally OFF, Right LED GREEN on read on read	8-bit	607xAKN 02 0 0 0 9
02FM-0223	HID Data Only	N/A	Beep ON, Left LED normally RED, Right LED GREEN on read on read	4-bit	607xAKN 00 0 0 0 0
02FM-0224	HID Data Only	N/A	Beep ON, Left LED normally RED, Right LED GREEN on read on read	8-bit	607xAKN 00 0 0 0 9
02FM-0291	HID Data or CSN	26 bit LSB	Beep OFF, Left LED normally OFF, Right LED GREEN on read on read	4-bit	607xAKN 03 2 2 0 0
02FM-0292	HID Data or CSN	26 bit LSB	Beep OFF, Left LED normally OFF, Right LED GREEN on read on read	8-bit	607xAKN 03 2 2 0 9
02FM-0255	HID Data or CSN	26 bit LSB	Beep OFF, Left LED normally RED, Right LED GREEN on read on read	4-bit	607xAKN 01 2 2 0 0
02FM-0256	HID Data or CSN	26 bit LSB	Beep OFF, Left LED normally RED, Right LED GREEN on read on read	8-bit	607xAKN 01 2 2 0 9
02FM-0273	HID Data or CSN	26 bit LSB	Beep ON, Left LED normally OFF, Right LED GREEN on read on read	4-bit	607xAKN 02 2 2 0 0



Format Number	Card Read Mode	CSN Wiegand Output Mode	Beeper/LED Configuration	Keypad Output (if applicable)	Equivalent FlexSmart Part Suffix
02FM-0274	HID Data or CSN	26 bit LSB	Beep ON, Left LED normally OFF, Right LED GREEN on read on read	8-bit	607xAKN 02 2 2 0 9
02FM-0221	HID Data or CSN	26 bit LSB	Beep ON, Left LED normally RED, Right LED GREEN on read on read	4-bit	607xAKN 00 2 2 0 0
02FM-0222	HID Data or CSN	26 bit LSB	Beep ON, Left LED normally RED, Right LED GREEN on read on read	8-bit	607xAKN 00 2 2 0 9
02FM-0287	HID Data or CSN	32 bit LSB	Beep OFF, Left LED normally OFF, Right LED GREEN on read on read	4-bit	607xAKN 03 2 0 0 0
02FM-0288	HID Data or CSN	32 bit LSB	Beep OFF, Left LED normally OFF, Right LED GREEN on read on read	8-bit	607xAKN 03 2 0 0 9
02FM-0251	HID Data or CSN	32 bit LSB	Beep OFF, Left LED normally RED, Right LED GREEN on read on read	4-bit	607xAKN 01 2 0 0 0
02FM-0252	HID Data or CSN	32 bit LSB	Beep OFF, Left LED normally RED, Right LED GREEN on read on read	8-bit	607xAKN 01 2 0 0 9
02FM-0269	HID Data or CSN	32 bit LSB	Beep ON, Left LED normally OFF, Right LED GREEN on read on read	4-bit	607xAKN 02 2 0 0 0
02FM-0270	HID Data or CSN	32 bit LSB	Beep ON, Left LED normally OFF, Right LED GREEN on read on read	8-bit	607xAKN 02 2 0 0 9
02FM-0233	HID Data or CSN	32 bit LSB	Beep ON, Left LED normally RED, Right LED GREEN on read on read	4-bit	607xAKN 00 2 0 0 0
02FM-0234	HID Data or CSN	32 bit LSB	Beep ON, Left LED normally RED, Right LED GREEN on read on read	8-bit	607xAKN 00 2 0 0 9
02FM-0289	HID Data or CSN	32 bit MSB	Beep OFF, Left LED normally OFF, Right LED GREEN on read on read	4-bit	607xAKN 03 2 1 0 0
02FM-0290	HID Data or CSN	32 bit MSB	Beep OFF, Left LED normally OFF, Right LED GREEN on read on read	8-bit	607xAKN 03 2 1 0 9
02FM-0253	HID Data or CSN	32 bit MSB	Beep OFF, Left LED normally RED, Right LED GREEN on read on read	4-bit	607xAKN 01 2 1 0 0
02FM-0254	HID Data or CSN	32 bit MSB	Beep OFF, Left LED normally RED, Right LED GREEN on read on read	8-bit	607xAKN 01 2 1 0 9
02FM-0271	HID Data or CSN	32 bit MSB	Beep ON, Left LED normally OFF, Right LED GREEN on read on read	4-bit	607xAKN 02 2 1 0 0



Format Number	Card Read Mode	CSN Wiegand Output Mode	Beeper/LED Configuration	Keypad Output (if applicable)	Equivalent FlexSmart Part Suffix
02FM-0272	HID Data or CSN	32 bit MSB	Beep ON, Left LED normally OFF, Right LED GREEN on read on read	8-bit	607xAKN 02 2 1 0 9
02FM-0235	HID Data or CSN	32 bit MSB	Beep ON, Left LED normally RED, Right LED GREEN on read on read	4-bit	607xAKN 00 2 1 0
02FM-0236	HID Data or CSN	32 bit MSB	Beep ON, Left LED normally RED, Right LED GREEN on read on read	8-bit	607xAKN 00 2 1 0
02FM-0293	HID Data or CSN	40 bit LSB	Beep OFF, Left LED normally OFF, Right LED GREEN on read on read	4-bit	607xAKN 03 2 4 0 0
02FM-0294	HID Data or CSN	40 bit LSB	Beep OFF, Left LED normally OFF, Right LED GREEN on read on read	8-bit	607xAKN 03 2 4 0 9
02FM-0257	HID Data or CSN	40 bit LSB	Beep OFF, Left LED normally RED, Right LED GREEN on read on read	4-bit	607xAKN 01 2 4 0 0
02FM-0258	HID Data or CSN	40 bit LSB	Beep OFF, Left LED normally RED, Right LED GREEN on read on read	8-bit	607xAKN 01 2 4 0 9
02FM-0275	HID Data or CSN	40 bit LSB	Beep ON, Left LED normally OFF, Right LED GREEN on read on read	4-bit	607xAKN 02 2 4 0 0
02FM-0276	HID Data or CSN	40 bit LSB	Beep ON, Left LED normally OFF, Right LED GREEN on read on read	8-bit	607xAKN 02 2 4 0 9
02FM-0237	HID Data or CSN	40 bit LSB	Beep ON, Left LED normally RED, Right LED GREEN on read on read	4-bit	607xAKN 00 2 4 0 0
02FM-0238	HID Data or CSN	40 bit LSB	Beep ON, Left LED normally RED, Right LED GREEN on read on read	8-bit	607xAKN 00 2 4 0 9



## SmartTRANS HID MIFARE Application

Applicable Part Numbers (Reader / Application):

- 8100DSHC SmartTRANS SP10 Read Only Reader, HID MIFARE
- 8101DSHC SmartTRANS SPK10 Read Only Keypad Reader, HID MIFARE

Format Number	Card Read Mode	CSN Wiegand Output Mode	Beeper/LED Configuration	Keypad Output (if applicable)	Equivalent FlexSmart Part Suffix
02FM-0277	HID Data Only	N/A	Beep OFF, Left LED normally OFF, Right LED GREEN on read on read	4-bit	607xAKN 03 0 0 0 0
02FM-0278	HID Data Only	N/A	Beep OFF, Left LED normally OFF, Right LED GREEN on read on read	8-bit	607xAKN 03 0 0 0 9
02FM-0239	HID Data Only	N/A	Beep OFF, Left LED normally RED, Right LED GREEN on read on read	4-bit	607xAKN 01 0 0 0 0
02FM-0242	HID Data Only	N/A	Beep OFF, Left LED normally RED, Right LED GREEN on read on read	8-bit	607xAKN 01 0 0 0 9
02FM-0259	HID Data Only	N/A	Beep ON, Left LED normally OFF, Right LED GREEN on read on read	4-bit	607xAKN 02 0 0 0 0
02FM-0260	HID Data Only	N/A	Beep ON, Left LED normally OFF, Right LED GREEN on read on read	8-bit	607xAKN 02 0 0 0 9
02FM-0223	HID Data Only	N/A	Beep ON, Left LED normally RED, Right LED GREEN on read on read	4-bit	607xAKN 00 0 0 0 0
02FM-0224	HID Data Only	N/A	Beep ON, Left LED normally RED, Right LED GREEN on read on read	8-bit	607xAKN 00 0 0 0 9

## SmartID, SmartTRANS and SmartTOUCH MIFARE Application

Applicable Part Numbers (Reader / Application):

- 8030DSCM SmartID S10 Read Only Reader, MIFARE
- 8031DSCM SmartID SK10 Read Only Keypad Reader, MIFARE
- 8100DSCM SmartTRANS SP10 Read Only Reader, MIFARE
- 8101DSCM SmartTRANS SPK10 Read Only Keypad Reader, MIFARE
- 800-8050 SmartTOUCH SB10 Read Only Reader, MIFARE
- 800-8055 SmartTOUCH SBK10 Read Only Keypad Reader, MIFARE

Part Number	Description
01SMR-0011	MIFARE Read Only Serial Number Wiegand 34
01SMR-0014	MIFARE Read Only Serial Number Wiegand 37
01SMR-0021	MIFARE Read Only Serial Number ABA 10 Digits
01SMR-1000	MIFARE Read Only IE Format Sector 1
01SMR-1020	MIFARE Read Only IE Format Sector 1 RS232 115K2 10D Card
01SMR-1150	MIFARE (ISO 14443) IE Format WG34 output
01SMR-2000	MIFARE Read Only Serial Number Wiegand 26
01SMR-2005	ISO 14443-3B Serial Number Wiegand 26
01SMR-2020	MIFARE Read Only Serial Number Wiegand 37
01SMR-2024	MIFARE Read Only Serial Number Wiegand 32 (MSB first)
01SMR-2025	MIFARE Read Only Serial Number Wiegand 32 (LSB first)
01SMR-2030	MIFARE Read Only Serial Number ABA 10 Digits
01SMR-2035	MIFARE Read Only Serial Number ABA 10 Digits ASB output
01SMR-2040	MIFARE Read Only Serial Number RS232 10 Digits
01SMR-2045	MIFARE Read Only Serial Number RS232 10 Digits 115k2
01SMR-2060	MIFARE Read Only Serial Number RS232 8 Digits
01SMR-2070	MIFARE Read Only Serial Number RS232 6 Hex
01SMR-4040	DESFire Serial Number Wiegand 58
01SMR-4041	MIFARE/DESFire serial Number Wiegand 56 no parity
01SMR-4042	MIFARE/DESFire Serial Number Wiegand 56 no parity + HID Prox Wiegand + PIN WG4 (SmartT..)
01SMR-4045	DESFire Serial Number Wiegand 56 No Parity
01SMR-7100	MIFARE (ISO 14443) IE Format + 125 kHz Proximity ABA 16 (SmartTRANS)
01SMR-7105	MIFARE (ISO 14443) IE Format + 125 kHz Proximity Wiegand (SmartTRANS)



Format Number	Card Read Mode	CSN Wiegand Output Mode	Beeper/LED Configuration	Keypad Output (if applicable)	Equivalent FlexSmart Part Suffix
02FM-0283	CSN Only	26 bit LSB	Beep OFF, Left LED normally OFF, Right LED GREEN on read on read	4-bit	607xAKN 03 1 2 0 0
02FM-0284	CSN Only	26 bit LSB	Beep OFF, Left LED normally OFF, Right LED GREEN on read on read	8-bit	607xAKN 03 1 2 0 9
02FM-0247	CSN Only	26 bit LSB	Beep OFF, Left LED normally RED, Right LED GREEN on read on read	4-bit	607xAKN 01 1 2 0 0
02FM-0248	CSN Only	26 bit LSB	Beep OFF, Left LED normally RED, Right LED GREEN on read on read	8-bit	607xAKN 01 1 2 0 9
02FM-0265	CSN Only	26 bit LSB	Beep ON, Left LED normally OFF, Right LED GREEN on read on read	4-bit	607xAKN 02 1 2 0 0
02FM-0266	CSN Only	26 bit LSB	Beep ON, Left LED normally OFF, Right LED GREEN on read on read	8-bit	607xAKN 02 1 2 0 9
02FM-0229	CSN Only	26 bit LSB	Beep ON, Left LED normally RED, Right LED GREEN on read on read	4-bit	607xAKN 00 1 2 0 0
02FM-0230	CSN Only	26 bit LSB	Beep ON, Left LED normally RED, Right LED GREEN on read on read	8-bit	607xAKN 00 1 2 0 9
02FM-0279	CSN Only	32 bit LSB	Beep OFF, Left LED normally OFF, Right LED GREEN on read on read	4-bit	607xAKN 03 1 0 0 0
02FM-0280	CSN Only	32 bit LSB	Beep OFF, Left LED normally OFF, Right LED GREEN on read on read	8-bit	607xAKN 03 1 0 0 9
02FM-0243	CSN Only	32 bit LSB	Beep OFF, Left LED normally RED, Right LED GREEN on read on read	4-bit	607xAKN 01 1 0 0 0
02FM-0244	CSN Only	32 bit LSB	Beep OFF, Left LED normally RED, Right LED GREEN on read on read	8-bit	607xAKN 01 1 0 0 9
02FM-0261	CSN Only	32 bit LSB	Beep ON, Left LED normally OFF, Right LED GREEN on read on read	4-bit	607xAKN 02 1 0 0 0
02FM-0262	CSN Only	32 bit LSB	Beep ON, Left LED normally OFF, Right LED GREEN on read on read	8-bit	607xAKN 02 1 0 0 9
02FM-0225	CSN Only	32 bit LSB	Beep ON, Left LED normally RED, Right LED GREEN on read on read	4-bit	607xAKN 00 1 0 0 0
02FM-0226	CSN Only	32 bit LSB	Beep ON, Left LED normally RED, Right LED GREEN on read on read	8-bit	607xAKN 00 1 0 0 9



Format Number	Card Read Mode	CSN Wiegand Output Mode	Beeper/LED Configuration	Keypad Output (if applicable)	Equivalent FlexSmart Part Suffix
02FM-0281	CSN Only	32 bit MSB	Beep OFF, Left LED normally OFF, Right LED GREEN on read on read	4-bit	607xAKN 03 1 1 0 0
02FM-0282	CSN Only	32 bit MSB	Beep OFF, Left LED normally OFF, Right LED GREEN on read on read	8-bit	607xAKN 03 1 1 0 9
02FM-0245	CSN Only	32 bit MSB	Beep OFF, Left LED normally RED, Right LED GREEN on read on read	4-bit	607xAKN 01 1 1 0 0
02FM-0246	CSN Only	32 bit MSB	Beep OFF, Left LED normally RED, Right LED GREEN on read on read	8-bit	607xAKN 01 1 1 0 9
02FM-0263	CSN Only	32 bit MSB	Beep ON, Left LED normally OFF, Right LED GREEN on read on read	4-bit	607xAKN 02 1 1 0 0
02FM-0264	CSN Only	32 bit MSB	Beep ON, Left LED normally OFF, Right LED GREEN on read on read	8-bit	607xAKN 02 1 1 0 9
02FM-0227	CSN Only	32 bit MSB	Beep ON, Left LED normally RED, Right LED GREEN on read on read	4-bit	607xAKN 00 1 1 0 0
02FM-0228	CSN Only	32 bit MSB	Beep ON, Left LED normally RED, Right LED GREEN on read on read	8-bit	607xAKN 00 1 1 0 9
02FM-0285	CSN Only	40 bit LSB	Beep OFF, Left LED normally OFF, Right LED GREEN on read on read	4-bit	607xAKN 03 1 4 0 0
02FM-0286	CSN Only	40 bit LSB	Beep OFF, Left LED normally OFF, Right LED GREEN on read on read	8-bit	607xAKN 03 1 4 0 9
02FM-0249	CSN Only	40 bit LSB	Beep OFF, Left LED normally RED, Right LED GREEN on read on read	4-bit	607xAKN 01 1 4 0 0
02FM-0250	CSN Only	40 bit LSB	Beep OFF, Left LED normally RED, Right LED GREEN on read on read	8-bit	607xAKN 01 1 4 0 9
02FM-0267	CSN Only	40 bit LSB	Beep ON, Left LED normally OFF, Right LED GREEN on read on read	4-bit	607xAKN 02 1 4 0 0
02FM-0268	CSN Only	40 bit LSB	Beep ON, Left LED normally OFF, Right LED GREEN on read on read	8-bit	607xAKN 02 1 4 0 9
02FM-0231	CSN Only	40 bit LSB	Beep ON, Left LED normally RED, Right LED GREEN on read on read	4-bit	607xAKN 00 1 4 0 0
02FM-0232	CSN Only	40 bit LSB	Beep ON, Left LED normally RED, Right LED GREEN on read on read	8-bit	607xAKN 00 1 4 0 9



## SmartID, SmartTRANS and SmartTOUCH DESFire Application

Applicable Part Numbers (Reader / Application):

- 8030DSDF SmartID S10 Read Only Reader, DESFIRE
- 8031DSDF SmartID SK10 Read Only Keypad Reader, DESFIRE
- 8100DSDF SmartTRANS SP10 Read Only Reader, DESFIRE
- 8100DSDF SmartTRANS SPK10 Read Only Keypad Reader, DESFIRE
- 800-8052 SmartTOUCH SB10 Read Only Reader, DESFIRE
- 800-8057 SmartTOUCH SBK10 Read Only Keypad Reader, DESFIRE

Part Number	Description
01SMR-4046	DESFIRE Serial Number Wiegand 56 No Parity + HID Prox Wiegand + PIN WG4
01SMR-4050	DESFIRE Serial Number RS232 14 Hex
01SMR-4051	DESFIRE Serial Number RS232 20 BCD
01SMR-4052	DESFIRE Serial Number RS232 20 BCD 9600B
01SMR-4060	DESFIRE Serial Number Wiegand 34
01SMR-4061	DESFIRE Serial Number Wiegand 32

## SmartID and SmartID Desktop with RS232, T=CL Application

Applicable Part Numbers (Reader / Application):

- 8030DSTC SmartID SW100 Reader/Writer, MIFARE and ISO14443-4
- 8031DSTC SmartID SWK100 Keypad Reader/Writer, MIFARE and ISO..A-
- 800-8240 SmartID SWD100 Desktop Reader/Write, MIFARE and ISO..A-4

Part Number	Description
01SMR-4100	ISO 14443-4 T=CL Serial
01SMR-4140	ISO 14443-4/T=CL/460kbps
01SMR-4141	ISO 14443-4 T=CL 9600 Baud
01SMR-4150	ISO 14443-4/T=CL/RS422/115K2
01SMR-4151	ISO 14443-4/T=CL/RS422/9600
01SMR-4152	ISO 14443-4/T=CL/RS485/115k2

## SmartID Desktop with USB, PC/SC Application

Applicable Part Numbers (Reader / Application):

- 800-1063 SmartID SW100 Desktop Reader/Writer, MIFARE and ISO..A-4

Part Number	Description
01SMR-4120	PCSC/CCID Configuration (GSA Approved)
01SMR-4121	ISO 14443-4 PCSC/CCID short poll time
01SMR-4125	ISO 14443-4 PCSC/CCID 2 Antenna auto polling
01SMR-4126	ISO 14443-4 PCSC/CCID 2 Antenna auto polling short poll time