READER-WRITER

Fully-Featured Unit

For Reading, Writing, and Verifying Magnetic Stripes

Writes to magnetic stripes.

ID TECH's Reader-Writer has two magnetic heads to enable it to write and verify data with a single pass. It is capable of encoding any of three tracks at either 75 or 210 BPI density.

Reads magnetic stripes.

The Reader-Writer reads and decodes up to three tracks of information with a single swipe. A long stainless-steel card guide ensures better card registration and minimizes alignment problems. Magnetic stripe data is output to a standard RS-232 serial interface.

Verifies magnetic stripe data.

The Reader-Writer verifies the written magnetic stripe data in ISO/ANSI or user-defined formats. Verification status is signaled by a series of three LED indicators.

Configures with Windows-based operating software.

Compatible with ISO/ANSI, AAMVA, and California DMV formats, the Reader-Writer can be programmed using menu-driven operating software. User-programmable features include component tests, read and write functions that display the data, and card comparison routines. Configuration settings can also be user-defined.

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IDT 3840 Reader-Writer Specifications

Electrical

Operating Voltage:	9VDC +/- 10%.
Read Power Consumption:	140 mA typical, 180 mA maximum.
Write Power Consumption:	Single Track: 200 mA typical, 250 mA maximum.
	Dual Track: 280 mA typical, 330 mA maximum.
	Triple Track: 360 mA typical, 430 mA maximum.
Memory Capacity:	7 bit x 79 characters maximum.
	5 bit x 107 characters maximum.
	Optional support of 7 inch maximum at 75 or 210 BPI.
Encoding/Decoding Density:	75 or 210 BPI.
Communication:	RS-232C, 9600 baud, 8 data bits, 1 stop bit, no parity.

Environmental

Operating Temperature:	41° F to 131° F (5° C to 55° C).
Storage Temperature:	-22° F to 149° F (-30° C to 65° C), non-condensing.
Humidity:	Maximum 90% non-condensing.

Reliability

Read Head Life:	500,000 passes minimum.*
Write Head:	500,000 passes minimum.*
Magnetic Read Rate:	Less than one error in 100,000 bits on cards conforming to ISO7811-5 (not induced by operator error).
Warranty:	One year, parts and labor.

Mechanical

Card Formats:	ISO/ANSI, AAMVA, and CA DMV.
Available Configurations:	Tracks 1 and 2.
	Tracks 1, 2, and 3.
Swipe Speed (Reading):	5 to 50 inches per second.
Swipe Speed (Writing):	10 to 35 inches per second.
Media Thickness:	.01 to .055 inches.
Slot Width:	Maximum card thickness—.055 (1.37 mm)
Dimensions:	Length: 7.9 inches (200 mm). Width: 2.3 inches (59 mm).
	Height: 2.2 inches (56 mm).

User-Programmable Features

Reset IDT 3840	Resets the unit to default values.	Continue write card	Writes to card(s) multiple times and displays the data.
RS-232 port test	Tests serial port communications.		
RAM test	Tests the internal memory.	Copy card	Copies data from one card to another.
LED test	Tests the LED indicators.	Compare card	Compares two or more cards to determine if they are identical.
Sensor test	Tests the card sensor.		
Read card	Reads a card once and displays the data.	Write card from file	Writes cards from a set-up file.
		Read raw data	Reads raw data and displays it raw or decoded.
Write card	Writes to a card once and verifies the data.		
		Write raw data	Writes data to the card without encoding it.
Continue read card	Reads card(s) multiple times and displays the data.	Erase card	Erases data on one card for specified tracks only.
		Sequential write	Writes incrementing data to a series of cards on a specified track.

Set-up Menu Options

Select com port	Selects serial communication port (Com 1 or Com 2).
Check device model	Displays the model number and card type.
Select parity	Selects parity for each track (odd, even, or none).
Select card type	Selects card standards (ISO, CA DMV, AAMVA, or user-defined).
Set leading zeros	Change the number of leading zeros for 210 BPI and 75 BPI.
Set BPI for Track 2	Sets bits per inch for Track 2 (75 or 210).
Set bits per character	Sets bits per character for each track.
Check firmware	Displays the current firmware version.

IDTECH™
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* All reliability numbers are based on operation in a laboratory environment.