



CFN Series

FleetCor Dual Network Special Card Handler

Islander II/CFN II, V2.3J or higher
CFN 3, V3.3J or higher
Version 1.0.1

Computer Programs and Documentation

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This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this equipment.

Approvals

Gasboy, Greensboro, is an ISO 9001:2000 registered facility.

Underwriters Laboratories (UL):

UL File#	Products listed with UL
MH4314	All dispensers and self-contained pumping units
MH6418	Power operated Transfer Pump Models 25, 25C, 26, 27, 28, 72, 72S, 72SP, 72X, 73 and 1820
MH7404	Hand operated Transfer Pump Models 1230 Series, 1243 Series, 1520 and 1720 Series
MH10581	Key control unit, Model GKE-B Series Card reader terminals, Models 1000, 1000P Site controller, Model 2000S CFN Series Data entry terminals, Model TPK-900 Series Fuel Point Reader System

New York City Fire Department (NYFD):

NYFD C of A #	Product
4823	9100A, 9140A, 9152A, 9153A, 9800A, 9840A, 9850A, 9852A, 9853A, 9140
4997	9822A, 9823A
5046	9100Q, 9140Q, 9152Q, 9153Q, 9800Q, 9840Q, 9852Q, 9853Q
5087	8753K, 8853K, 9153K, 9853K (restricted to diesel and non-retail gasoline sales)

California Air Resources Board (CARB):

Executive Order #	Product
G-70-52-AM	Balance Vapor Recovery
G-70-150-AE	VaporVac

National Conference of Weights and Measures (NCWM) - Certificate of Compliance (CoC):

Gasboy pumps and dispensers are evaluated by NCWM under the National Type Evaluation Program (NTEP). NCWM has issued the following CoC:

CoC#	Product	Model #	CoC#	Product	Model #
95-179A2	Dispenser	9100 Retail Series, 8700 Series, 9700 Series	91-019A2	Dispenser	9100 Commercial Series
95-136A5	Dispenser	9800 Series	91-057A3	Controller	1000 Series FMS, 2000S-CFN Series

Patents

Gasboy products are manufactured or sold under one or more of the following US patents:

Dispensers

5,257,720

Point of Sale/Back Office Equipment

D335,673

Additional US and foreign patents pending.

Trademarks

Non-registered trademarks

Atlas™
Console™
Infinity™

Registered trademarks

ASTRA®
Fuel Point®
Gasboy®
Keytrol®
Slimline®

Additional US and foreign trademarks pending.

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1 – Introduction

Overview

The FleetCor Dual Network Special Card Handler and some configuration changes allow a CFN II or CFN III to support the features listed below. This special card handler requires CFN II/Islander II or CFN III to operate. Gasboy Island Card Readers (ICRs) require Stargate version 4.2K or higher.

The following are the features of the FleetCor Dual Network Special Card Handler:

- Host-controlled Personal Identification Numbers (PINs)
- Floating PINs (multiple PINs assigned to the same card)
- Host-controlled product authorization
- Host-controlled quantity restrictions
- Host-controlled third party cards (Visa®, Mastercard®, T-Chek, Gascard/CFN dual card)
- Host-controlled messages to user

Note: After installing the software, the participant should contact the FleetCor Network help desk. The help desk should verify that the site(s) is set up for custom PINs and T-Chek acceptance, the correct site number is used, and the site 99 password is set correctly, if needed. Also, the help desk should verify if the transactions are being processed properly and that product control is working.

When a card is swiped, the special handler identifies the card as a T-Chek or Gascard/CFN dual card that is handled by the host site protocol.

Host-Site Communication Enhancements

- Extended site transaction authorization request response.
- Configuration - New system configuration parameters will be added to enable extended site authorization requests.
- Vehicle field and issuer fields will be appended to the end of the request message if the site is configured to use extended authorization.

Extended Host Transaction Authorization

- Authorization code - An optional 2-digit authorization code field may be included in the host transaction authorization message.
- If a card contains an authorization code, that code will be checked before the transaction is sent to the host for authorization. The authorization code returned from the host will be checked later, but it must pass the encoded authorization code check first. If the product authorization length is set to 0 in SYS_PAR the product will not be authorized before it is sent to the host.
- Price Level - An optional 2-digit price level field may be included in the host transaction authorization message.

- This field is not implemented at this time and is not necessary for this application. The field must be filled with two non-numeric characters if the new card field is used.
- Product mask - An optional 26 hex character (104 bits) field may be included in the authorization message. The first bit will represent product number 1, the second bit represents product number 2 and so on, through product 99. 0 indicates that the corresponding product is not allowed, and 1 indicates it is allowed. Bits 100-104 are not used at this time.
- Alternate card image - An optional, variable length (0-37 digits) card data field with a ',' termination may be appended to the end of the host transaction authorization message.
- All optional data preceding the optional authorization field must be included.

Related Documents

Site Controller - Versions 2.2+, 3.3, and 3.4 and higher

Document Number	Title	GOLD Library
C01918	SC II Installation Manual, version 2.3	CFN Series Controllers and POS
C09159	SC II Pocket Reference, version 2.3	CFN Series Controllers and POS
C09204	Check Point Reference Manual	Archive
C35923	Point of Sale and Shift Change, version 00X	CFN Series Controllers and POS
MDE-4311	Site Controller II Manager's Manual, version 2.2+	CFN Series Controllers and POS
MDE-4312	Site Controller II Configuration Manual, version 2.3	CFN Series Controllers and POS
MDE-4313	CFN III Manager's Manual for Windows NT, version 3.3	CFN Series Controllers and POS
MDE-4314	CFN III Configuration Manual for Windows NT, version 3.3	CFN Series Controllers and POS
MDE-4315	CFN III Manager's Manual for Windows NT, version 3.4	CFN Series Controllers and POS
MDE-4316	CFN III Configuration Manual for Windows NT, version 3.4	CFN Series Controllers and POS
MDE-4355	Profit Point Clerk's Manual	CFN Series Controllers and POS
MDE-4356	Profit Point Reference Manual	CFN Series Controllers and POS
MDE-4479	CFN III Quick Reference, version 3.4	CFN Series Controllers and POS

Credit and Debit Card Networks

Document Number	Title	GOLD Library
C35903	Comdata™ Credit & Debit Networks	CFN Series Networks, Card Handlers, and Pump Interfaces
C35904	EDS-CCIS Credit & Debit Networks	CFN Series Networks, Card Handlers, and Pump Interfaces
C35905	FDR Credit & Debit Networks	CFN Series Networks, Card Handlers, and Pump Interfaces
C35906	ADS-Fina® Credit & Debit Networks	CFN Series Networks, Card Handlers, and Pump Interfaces
C35907	Gascard Credit & Debit Networks	CFN Series Networks, Card Handlers, and Pump Interfaces

Document Number	Title	GOLD Library
C35909	Generic Dial Credit & Debit Networks	CFN Series Networks, Card Handlers, and Pump Interfaces
C35910	NaBANCO Credit & Debit Networks	CFN Series Networks, Card Handlers, and Pump Interfaces
C35911	NDC Credit & Debit Networks	CFN Series Networks, Card Handlers, and Pump Interfaces
C35913	Sinclair® Credit & Debit Networks	CFN Series Networks, Card Handlers, and Pump Interfaces
C35914	ADS-Chicago Credit & Debit Networks (formerly SPS/Phillips)	CFN Series Networks, Card Handlers, and Pump Interfaces
C35915	T-Chek Credit & Debit Networks	CFN Series Networks, Card Handlers, and Pump Interfaces
C35917	VDOT Credit & Debit Networks	CFN Series Networks, Card Handlers, and Pump Interfaces
C35930	Gasboy Dial 001 Credit & Debit Networks	CFN Series Networks, Card Handlers, and Pump Interfaces
C35931	Amoco®/DataCard® Credit & Debit Networks	CFN Series Networks, Card Handlers, and Pump Interfaces
MDE-4560	VisaNet SM Credit & Debit Card Networks	CFN Series Networks, Card Handlers, and Pump Interfaces
MDE-4572	Paymentech® Credit & Debit Networks (formerly Gensar)	CFN Series Networks, Card Handlers, and Pump Interfaces
MDE-4605	ADS-Citgo® Credit & Debit Networks	CFN Series Networks, Card Handlers, and Pump Interfaces
MDE-4606	Buypass SM Credit & Debit Card Networks	CFN Series Networks, Card Handlers, and Pump Interfaces
MDE-4623	UFDA Credit & Debit Networks	CFN Series Networks, Card Handlers, and Pump Interfaces

Pump Interface

Document Number	Title	GOLD Library
C01745	Gilbarco® Interface Unit Installation Manual	CFN Series Networks, Card Handlers, and Pump Interfaces
C09146	Site Controller Pump Interface Manual	CFN Series Networks, Card Handlers, and Pump Interfaces
C35849	SDI/Wayne® CAT Interface	CFN Series Networks, Card Handlers, and Pump Interfaces
C35924	SDI/Unitec® Interface	CFN Series Networks, Card Handlers, and Pump Interfaces
MDE-4337	Gilbarco CRIND PC Interface for SC III w/NT	CFN Series Networks, Card Handlers, and Pump Interfaces
MDE-4559	Insight Interface	CFN Series Networks, Card Handlers, and Pump Interfaces

Remote Communications

Document Number	Title	GOLD Library
C09141	PC/Site Control User's Manual	N/A

Technical Publications

Document Number	Title	GOLD Library
C01759	CFN Diagnostic Manual	CFN Series Controllers and POS

Card Encoding and Miscellaneous

Document Number	Title	GOLD Library
C09136	CFN Series Clubcard Format	N/A
MDE-4602	CFN Series Card Encoding Manual	Card/Key Encoding

Warranty

For information on warranty, refer to MDE-4255 Gasboy's Warranty Policy Statement. If you have any warranty-related questions, contact Gasboy's Warranty Department at its Greensboro location.

2 – T-Chek Cards

Prompts

Driver ID or ENTER Prompt

- Always prompted for.
- If no driver ID is required, press **ENTER** to proceed to the next prompt.

Refer 1=YES 2=NO Prompt

- Always prompted for.
- A valid response will be one digit within the 1-2 range.

Odometer Prompt

- Always prompted for.
- Response will be stored in the odometer field.
- A valid response will be eight digits or less.

Unit # Prompt

- Always prompted for.
- Response will be stored in the manual entry (aux.) field.
- This entry will not be printed on receipts.
- A valid response will be eight digits or less.

Transaction Format

- Track II card data occupies the card and account field.
- Unit number occupies the manual entry field.

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3 – Gascard/CFN Dual Card

Prompts

Odometer Prompt

- Always prompted for.
- Response will be stored in the odometer field.
- A valid response will be eight digits or less.

PIN Prompt

- Always prompted for.
- Response will be stored in the PIN field.
- A valid response will be six digits or less.

Transaction Format

- Track II card data occupies the card and account field.
- Odometer occupies the odometer field.

Receipt Masking

All cards handled as a credit tender, including FuelmanSM Plus and Gascard Access, will be masked with only the last four digits appearing on the receipt. With site version V034M and above, the CFN Dual Card receipt masking can be modified to meet the customer requirements better. It is possible to print any four contiguous numbers in the card data by configuring TRFMT and setting a value in sys_par on page 12. Refer to MDE-4316 CFN Series CFN III Configuration Manual for Windows NT®, for more information on specialized masking of CFN Dual Cards and other local cards.

System Log Card Masking

The system log will mask all cards except locally authorized Club cards. All cards identified as a credit tender, including Fleet cards, will be fully masked, except for the first two and the last four digits of the account. Remotely authorized Club cards, such as the Dual card, will be masked according to the TRFMT configuration. An exception is for a Dual card that is processed locally for authorization in Fallback mode. A locally authorized Dual card will not be masked on the log.

Note: Account data will not be masked on the logger print-out if a type-29 CARD field is used. Only type-2 account fields can be masked.

Refer to MDE-4316 CFN Series CFN III Configuration Manual for Windows NT for more information on configuring the transaction format for the system log.

Using Alter Utility

Refer to C35923 Point of Sale and Shift Change for using the Alter Utility to setup Shift and Day Reports.

To use Fuelman Plus and Gascard Access with CFN FleetCor on Shift and Day Reports, accept the payment types "Fuelman FltCor" and "Gascard FltCor". These two cards are set up as a Club tender with the FleetCor host system. Do not accept the card descriptions "Fuelman Plus" and "Gascard Access", as these cards are set up as a Credit tender and are utilized by other host systems.

4 – Configuration

SYS_PAR Configuration

Parameter Name	Parameter Value
Page 1: System Parameters	
System ID	1220
PIN Key	Call Gasboy
Lockout	Bit mapped, 7 digits, on disk, max card 9999999
Page 2: Club Card Format - Field Widths	
Digits in System ID	4
Digits in Account #	19
Digits in Expiration Date	4
Digits in Limitation Code	1
Digits in Authorization Code*	0
Digits in Price Level	1
Digits in Restriction Code	1
Digits Used in PIN Calculation	9
Page 3: Club Card Formats - Offsets	
Limitation Code Offset	0
Authorization Code Offset	1
Price Level Offset	3
Restriction Code Offset	4
PIN Calculation Offset	0
Extra Card Digit Offset	5
Club Bit-mapped Account Offset	0
Page 4: Reader Verification and Miscellany	
Use remote verification**	Club credit***
Check PIN	None
Page 5: Console Verification	
Use remote verification**	Club credit***
Check PIN	None
Page 8: Serial Port Configuration	
Send Request to host handler	Credit
Page 11: Transaction Miscellany	
CFN PIN Unencrypted*	Yes
Send transactions to CFN host*	Club
<i>Note: Also specify credit only if a bank network is not being used and T-Chek or other credit cards are being authorized through FleetCor Network.</i>	

Parameter Name	Parameter Value
Use new format for CFN auth host*	Yes
Page 13: Miles-per-gallon package	
Use aux info field for vehicle number*	None
* These changes are required for FleetCor Dual Network features.	
** Minimal requirements for FleetCor Dual Network only. Additional card types may be necessary if also connecting to a bank network. Refer to the network manual.	
*** If only the FleetCor handler is being used, this should be Club only.	

Working with FleetCor Network Help Desk

After installing the software, the participant should contact the FleetCor Network help desk. The help desk should verify if the site(s) is set up for the following:

- Custom PINs and T-Chek acceptance
- The correct site number is used
- The site 99 password is set correctly (if needed)

Also, the help desk should verify if the transactions are being processed properly and that product control is working.

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- Unit # 5

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- Sinclair 3
- T-Chek 1, 3, 5, 9, 10
- Visa 1, 3

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- Unit number 5

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Unit number 5

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