



Quarles NBS

---

# Configuration and Software Installation Manual

## Computer Programs and Documentation

All Gasboy computer programs (including software on diskettes and within memory chips) and documentation are copyrighted by, and shall remain the property of, Gasboy. Such computer programs and documents may also contain trade secret information. The duplication, disclosure, modification, or unauthorized use of computer programs or documentation is strictly prohibited, unless otherwise licensed by Gasboy.

## Federal Communications Commission (FCC) Warning

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 MH1941	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.

Other brand or product names shown may be trademarks or registered trademarks of their respective holders.

# Table of Contents

1 – Introduction	1
Purpose . . . . .	1
Abbreviations and Acronyms . . . . .	1
Warranty . . . . .	1
2 – Important Safety Information	3
3 – Configuration and Installation	5
Confirmation of Version Information . . . . .	5
Site Controller (SC) III Operating Software . . . . .	5
Network Router . . . . .	5
Card Handler . . . . .	5
Site Configuration . . . . .	6
Table . . . . .	6
SYS_PAR . . . . .	6
READER . . . . .	8
Site Data . . . . .	9
Limitation . . . . .	9
Authorization . . . . .	10
Product Codes . . . . .	10
NBS Network Configuration . . . . .	11
Network Parameters . . . . .	11
Card Parameters . . . . .	11
Modem Parameters . . . . .	11
Product Cross Reference . . . . .	11
Appendix A - Port Wiring	13
Appendix B - System Parameters Listing	15
*** Page 1: *** System Parameters *** . . . . .	15
*** Page 2: *** Club Card Format - Field Widths *** . . . . .	15
*** Page 3: *** Club Card Format - Offsets *** . . . . .	16
*** Page 4: *** Reader Verification and Miscellany *** . . . . .	16
*** Page 5: *** Console Verification *** . . . . .	17
*** Page 6: *** Gate Verification and Miscellany *** . . . . .	17
*** Page 7: *** Fuel Point Verification and Miscellany *** . . . . .	18
*** Page 8: *** Serial Port Configuration *** . . . . .	18
*** Page 9: *** Miscellany *** . . . . .	19
*** Page 10: *** Tank Gauge *** . . . . .	20
*** Page 11: *** Transaction Miscellany *** . . . . .	20
*** Page 12: *** Receipt Configuration *** . . . . .	21
*** Page 13: *** Miles per Gallon (MPG) Package *** . . . . .	22
Appendix C - 3.3 to 3.4K Upgrade Instructions	23
Creating Backups . . . . .	23

**Table of Contents**

---

Preparing the System for Upgrade . . . . . 23  
Installing the Upgraded Software . . . . . 23  
Restoring the Data . . . . . 25

Index

Index-1

---

---

# 1 – Introduction

---

## Purpose

This document provides the general setup information for Quarles fueling sites. The information in this document is based on the use of the Cash Flow Network (CFN) III operating system V3.4K with NBS router V1.2.3.7. All settings and parameters are subject to change based on the on-site preference.

## Abbreviations and Acronyms

<b>Term</b>	<b>Description</b>
CFN	Cash Flow Network
ICR	Island Card Reader
ID	Identification
MPG	Miles per Gallon
NBS	National Bankcard Services
PIN	Personal Identification Number
POS	Point of Sale
RAM	Random Access Memory
SC	Site Controller

## 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.

*This page is intentionally left blank.*

## 2 – Important Safety Information

This section introduces the hazards and safety precautions associated with installing, inspecting, maintaining or servicing this product. Before performing any task on this product, read this safety information and the applicable sections in this manual, where additional hazards and safety precautions for your task will be found. Fire, explosion, electrical shock or pressure release could occur and cause death or serious injury if these safe service procedures are not followed.

### Preliminary Precautions

You are working in a potentially dangerous environment of flammable fuels, vapors, and high voltage or pressures. Only trained or authorized individuals knowledgeable in the related procedures should install, inspect, maintain or service this equipment.



### Emergency Total Electrical Shut-Off

The first and most important information you must know is how to stop all fuel flow to the pump and island. Locate the switch or circuit breakers that shut-off all power to all fueling equipment, dispensing devices, and submerged turbine pumps (STPs).

**⚠ WARNING**

 The EMERGENCY STOP, ALL STOP, and PUMP STOP buttons at the cashier's station WILL NOT shut off electrical power to the pump/dispenser.

 This means that even if you activate these stops, fuel may continue to flow uncontrolled.

You must use the TOTAL ELECTRICAL SHUT-OFF in the case of an emergency and not only these cashier station "stops."

### Total Electrical Shut-Off Before Access

Any procedure requiring access to electrical components or the electronics of the dispenser requires total electrical shut-off of that unit. Know the function and location of this switch or circuit breaker before inspecting, installing, maintaining, or servicing Gasboy equipment.

### Evacuation, Barricading and Shut-Off

Any procedures requiring accessing the pump/dispenser or STPs requires the following three actions:



- An evacuation of all unauthorized persons and vehicles using safety tape, cones or barricades to the effected units
- A total electrical shut-off of that unit

### Read the Manual

Read, understand and follow this manual and any other labels or related materials supplied with this equipment. If you do not understand a procedure, call the Gasboy Customer Service at 1-800-444-5579, Tech Support 1-800-444-5529. It is imperative to your safety and the safety of others to understand the procedures before beginning work.

### Follow the Regulations

There is applicable information in NFPA 30A; *Automotive and Marine Service Code*, NFPA 70; *National Electrical Code (NEC)*, OSHA regulations and federal, state, and local codes which must be followed. Failure to install, inspect, maintain or service this equipment in accordance with these codes, regulations and standards may lead to legal citations with penalties or affect the safe use and operation of the equipment.

### Replacement Parts

Use only genuine Gasboy replacement parts and retrofit kits on your pump/dispenser. Using parts other than genuine Gasboy replacement parts could create a safety hazard and violate local regulations.

### Safety Symbols and Warning Words

This section provides important information about warning symbols and boxes.

#### Alert Symbol



This safety alert symbol is used in this manual and on warning labels to alert you to a precaution which must be followed to prevent potential personal safety hazards. Obey safety directives that follow this symbol to avoid possible injury or death.

#### Signal Words

These signal words used in this manual and on warning labels tell you the seriousness of particular safety hazards. The precautions that follow must be followed to prevent death, injury or damage to the equipment



**DANGER** - This signal word is used to alert you to a hazard to unsafe practice which will result in death or serious injury



**WARNING** - This alerts you to a hazard or unsafe practice that could result in death or serious injury.



**CAUTION** with Alert symbol - This signal word designates a hazard or unsafe practice which may result in minor injury.

**CAUTION** without Alert symbol - When used by itself, CAUTION designates a hazard or unsafe practice which may result in property or equipment damage.

### Working With Fuels and Electrical Energy

#### Prevent Explosions and Fires

Fuels and their vapors will become explosive if ignited. Spilled or leaking fuels cause vapors. Even filling customer tanks will cause explosive vapors in the vicinity of dispenser or island.

## Important Safety Information

### No Open Flames



Open flames from matches, lighters, welding torches or other sources can ignite fuels and their vapors.



### No Sparks - No Smoking

Sparks from starting vehicles, starting or using power tools, burning cigarettes, cigars or pipes can also ignite fuels and their vapors. Static electricity, including an electrostatic charge on your body, can cause a spark sufficient to ignite fuels and their vapors. After getting out of a vehicle, touch the metal of your vehicle to discharge any electrostatic charge before you approach the dispenser island.

### Working Alone

It is highly recommended that someone who is capable of rendering first aid be present during servicing. Be familiar with Cardiopulmonary Resuscitation (CPR) methods if you are working with or around high voltages. This information is available from the American Red Cross. Always advise the station personnel about where you will be working, and caution them not to activate power while you are working on the equipment. Use the OSHA tag out and lock out procedures. If you are not familiar with this requirement, refer to information in the service manual and OSHA documentation.

### Working With Electricity Safely

Be sure to use safe and established practices in working with electrical devices. Poorly wired devices may cause a fire, explosion or electrical shock. Be sure grounding connections are properly made. Make sure that sealing devices and compounds are in place. Be sure not to pinch wires when replacing covers. Follow OSHA Lock-Out and Tag-Out requirements. Station employees and service contractors need to understand and comply with this program completely to ensure safety while the equipment is down.

### Hazardous Materials

Some materials present inside electronic enclosures may present a health hazard if not handled correctly. Be sure to clean hands after handling equipment. Do not place any equipment in mouth.

#### WARNING

This area contains a chemical known to the State of California to cause cancer.

#### WARNING

This area contains a chemical known to the State of California to cause birth defects or other reproductive harm.

**IMPORTANT:** Oxygen may be needed at scene if gasoline has been ingested or inhaled. Seek medical advice immediately.

## Emergency First Aid

### Informing Emergency Personnel

Compile the following information for emergency personnel: Location of accident (for example, address, front/back of building, and so on).

Nature of accident (for example, possible heart attack, run over by car, burns, and so on).

Age of victim (for example, baby, teenager, middle-age, elderly)

Whether or not victim has received first aid (for example, stopped bleeding by pressure, and so on).

Whether or not a victim has vomited (for example, if swallowed or inhaled something, and so on).

#### WARNING



Gasoline ingested may cause unconsciousness and burns to internal organs.

Do not induce vomiting.

Keep airway open.

Oxygen may be needed at scene.

Seek medical advice immediately.

#### WARNING



Gasoline inhaled may cause unconsciousness and burns to lips, mouth and lungs.

Keep airway open.

Seek medical advice immediately.

#### WARNING



Gasoline spilled in eyes may cause burns to eye tissue.

Irrigate eyes with water for approximately 15 minutes.

Seek medical advice immediately

#### WARNING



Gasoline spilled on skin may cause burns.

Wash area thoroughly with clear/water.

Seek medical advice immediately.

**IMPORTANT:** Oxygen may be needed at scene if gasoline has been ingested or inhaled. Seek medical advice immediately.

### Lockout/Tagout

Lockout/Tagout covers servicing and maintenance of Machines and equipment in which the unexpected energization or start up of the machine(s) or equipment or release of stored energy could cause injury to employees or personnel. Lockout/Tagout applies to all mechanical, hydraulic, chemical or other energy, but does not cover electrical hazards. Reference Subpart S of 29 CFR Part 1910 - Electrical Hazards, 29 CFR Part 1910.333 contains specific Lockout/Tagout provision for electrical hazards.

## 3 – Configuration and Installation

---

### Confirmation of Version Information

Use the STATUS command to view the current software revisions. Each Gasboy CFN operating system contains three sections.

#### Site Controller (SC) III Operating Software

The SC III operating software is the top layer software that controls all operations. It performs the following:

- Communicates with pump interfaces, network routers, and card handlers.
- Acts as the trail guide for all data that passes in and out of the system.

#### Network Router

The network router receives credit card/network-authorized Fleet Card information from the card handler and communicates it to the designated network host.

#### Card Handler

The card handler receives the card data from the operating system and distributes it according to the card type. The Quarles network uses the NBS-GL3 handler. When a Quarles Fleet Card is swiped at the reader, the SC III operating software sends the Q-card information to the card handler. Here, the data is verified and routed to the network router.

**Example:** The following screen capture of the STATUS command shows the information that is required to determine the version of the software that is running. The current Quarles installation displays Site 3.4K operating software, Router NBS 1.2.3.7 and Handler NBS GL3 003. If you are at a Quarles site and do not have these minimum versions, you must upgrade. To order the software and enquire about other details, call Gasboy's Customer Service Department.

```
signon:
Connected to site 0 on Thu 12/14/06 5:46 AM
[IP:]* STATUS
Gasboy International LLC
Serial Number: 1234 Model PA03700001 NTEP cc NO 05-098

CPU ID: 0005005
Site U3.4K (1019/082206)
  Router:(NBS 1.2.3.7), Handler:NBS-GL3(003)
Drivers: DPT-normal tokheim(007) gate(001) gauge(001)
         fleet(002) USA
Last transaction saved: 0
Transfile FULL.
Switches:
  Password: Normal
  Boot to: OS          Crash to: OS          Monitor output to: PC
```

## Site Configuration

This section highlights the configuration parameters that are required for the proper operation of Quarles locations. Not all parameters are specified since many of the default parameters are acceptable. Use the installation procedures in this manual to automatically load the appropriate configuration, network and site data information. The following information is required to verify if the installation has been performed properly.

### Table

Match your table setup to the following screen capture. Items 6-12 may vary depending on the number of devices at each site. For more information on these parameters, refer to MDE- 4316 Site Controller III Configuration Manual.

Always run SYSBACK and TRANBACK prior to changing the table parameters. This configuration program directly affects the way data is written to the memory. Changing this table will redefine the memory allocation and could result in data loss. Proper backups are the only way to ensure recovery after memory table reconstruction.

1. Transaction	1000	17. Receipt	100
2. Cash	20	18. Receipt-head	10
3. Lockout	106	19. Vehicle	0
4. Product	99	20. Allocation	0
5. Pump	33	21. Signon	5
6. Reader	4 2	22. Cron	50
7. Gate	0 0	23. TIP	80
8. Gauge	1 1	24. Diagnostic	40
9. Console	1 0	25. Monitor	100
10. FPR	0 0	26. Journal	110
11. SDI	0 0	27. Tax	20
12. Tank	8 4	28. Router	5500
13. Price	20	----- Space remaining = 7083	
14. Limitation	150		
15. Authorization	150		
16. Broadcast	15		

## SYS\_PAR

### Page 1

- 2. Site ID - This number will vary from site to site and is designated by Quarles. Contact Quarles at (877) 444-3835 if you are unsure of the number that is to be entered here.
- 7. PIN Key - This number will vary from site to site and is designated by Quarles. Contact Quarles at (877) 444-3835 if you are unsure of the number that is to be entered here.
- All other items on Page 1 can retain their default settings.

### Page 2+3

- All items on these pages can retain their default settings. Standard Gasboy Club Card formats are not used with Quarles.

### Page 4

- 35. Use remote verification (reader) - Credit
- 50. Keypads - If Gilbarco® CRIND®, Tokheim® DPT or Wayne® CATS are used, this parameter will be filled in. If Gasboy Island Card Readers (ICRs) are used, this line can be left blank. Refer to MDE-4316 Site Controller III Configuration Manual for the appropriate entries when using third party (Gilbarco, Wayne or Tokheim) readers.
- All other items on Page 4 can retain their default value.

### Page 5

- Quarles sites are currently card reader-access only. The default settings on Page 5 can be used.

### Page 6

- If a gate reader is used, refer to MDE-4316 Site Controller III Configuration Manual for information on setting up this page.

### Page 7

- If Fuel Point is used, refer to MDE-4316 Site Controller III Configuration Manual for information on setting up this page.

### Page 8

- 85. Remote port channel - 6 (can be 4, 5 or 6). Refer to [“Appendix A - Port Wiring” on page 13](#) to identify appropriate port numbers.
- 86. Log printer channel - 1
- 88. Remote port baud rate - 2400
- 94. Host handler channel - 4
- 95. Host handler baud rate -2400
- 96. Verification timeout (routers) - 95
- 100. Send requests to host handler - Credit
- All other items on Page 8 can retain their default settings.

## CAUTION

The Host Handler Channel (94), Host Handler BAUD rate (95), and Host Handler Data (101) should not be changed here. Changes in network parameters pertaining to modem type and other configuration settings that are important to credit verification will automatically change this parameter. Making changes here may render the credit verification system inoperable. This operation should only be performed at the suggestion of the Gasboy Technical Assistance Center.

### Page 9

- 107. Blank pump display after - Never
- All other items on Page 9 can retain their default settings.

### Page 10+11

- All items on Page 10+11 can retain their default settings.

**Page 12**

- 148. Print manual # on receipt - Yes
- 155. Text used on receipt for manual number - Job Number
- All other items on Page 12 can retain their default settings.

**Page 13**

- 166. Use aux info field for vehicle number - Club
- All other items on Page 13 can retain their default settings.

*Note: Ensure that you quit, save and reboot the system when you make changes to the system parameters or any configuration setup utility, for the changes to take effect. Refer to “Appendix B - System Parameters Listing” on page 15 for a list of system parameters for Quarles locations.*

**READER**

Reader Program - Match the Reader program to the following screen capture.

#	Ty	S/D	DISPLAY	WHILE ENTERING	OPTIONS
1	1	?	SLIDE CARD	?	?
2	2	2 ?	SELECT PUMP NUMBER	? Pump	?
3	3	4 ?	ENTER YOU PIN	? YOUR PIN	? Optional Mask
4	3	4 ?	ENTER PIN	? PIN	? Optional Auto-enter Mask
5	7	7 ?	Enter odometer	? Odometer	? Optional
6	6	8 ?	ENTER JOB NUMBER	? JOB	? Optional
7	9	?	Please Wait	?	?
8	10	?		?	?
9	19	2 ?	Pump #XX is ready	?	?
10	13	2 ?	Thanks, come again	?	?
11		?	-----END-----	?	?

Reader parameters may vary from site to site. Refer to MDE-4316 Site Controller III Configuration Manual for information on setting up the Reader parameters appropriately.

**PUMP**

Pump options will vary from site to site. Refer to MDE-4316 Site Controller III Configuration Manual for information on setting up the Pump parameters appropriately.



## Authorization

Use the LO AU command to load the following authorization codes with the appropriate products.

Code	Allowed Product
80	3 4 9 11 14 15
81	14
82	11
83	3 4
84	5
85	11 14
86	11 14 15
87	3 4 11
88	3 4 14
89	3 4 15
93	4
94	4 11

## Product Codes

Listed below are the current Quarles product codes.

Local Code	Description	NBS Cross Reference #
3	Diesel	18
4	Ultra Low DI	25
6	Off-road	30
9	Mid-grade	3
10	Super	4
11	Regular	14
12	Regular	2
14	Mid-grade	15
15	Super	16

*Note: Different product codes use the same description. This is to account for reformulated fuels and is managed by Quarles and NBS.*

Refer to [“Product Cross Reference” on page 11](#) for the appropriate NBS cross reference number for referencing the network setup.

## Prices

Each fuel product will have a price of 1 dollar.

# NBS Network Configuration

Type NBS at the command prompt to access the NBS main menu.

## Network Parameters

Match the network parameters to the following screen capture.

```

1. Initialization type : NBS Host
2. Main Bank Phone Number : 18007830778
3. Backup Bank Phone Number : 18007830778
4. Carrier wait timeout : 20
5. Verification timeout : 95
6. Terminal ID : 631020000807502
7. Pre-auth mode : 2
8. Use Modem Pre-dial : Enabled
9. Maximum hours allowed in a fallback condition : 120
$ 10. UTC Time Zone offset : Eastern (EST)
11. Daylight Savings indicator : Disabled
12. Suppress Veh # on receipts : Disabled
13. Attendent at Pumps and signed receipts : Disabled
14. Accept Visa Fleet as Std Visa Card : Disabled
15. Accept MasterCard Fleet as Std MasterCard : Disabled
16. Max Authorized Card Amount : $300
17. Host Transport Protocol : 1
18. Set Prompts to the 2nd display line on readers : Disabled

```

## Card Parameters

For Quarles sites, all other credit card verification parameters are set to Not Allow (N/A). Set the Quarles Card (#25 on the list in the edit card parameter menu) parameters as follows:

CARD	OK Auth	Fill Amt	Price Level	OK Rtn	OK Voice	OK Ovrld	OK Loc Auth
Quarles	Y	\$250	0	Y	Y	N	Y
ALL OTHERS	N	N/A	N/A	N/A	N/A	N/A	N/A

## Modem Parameters

Set the modem parameters as follows:

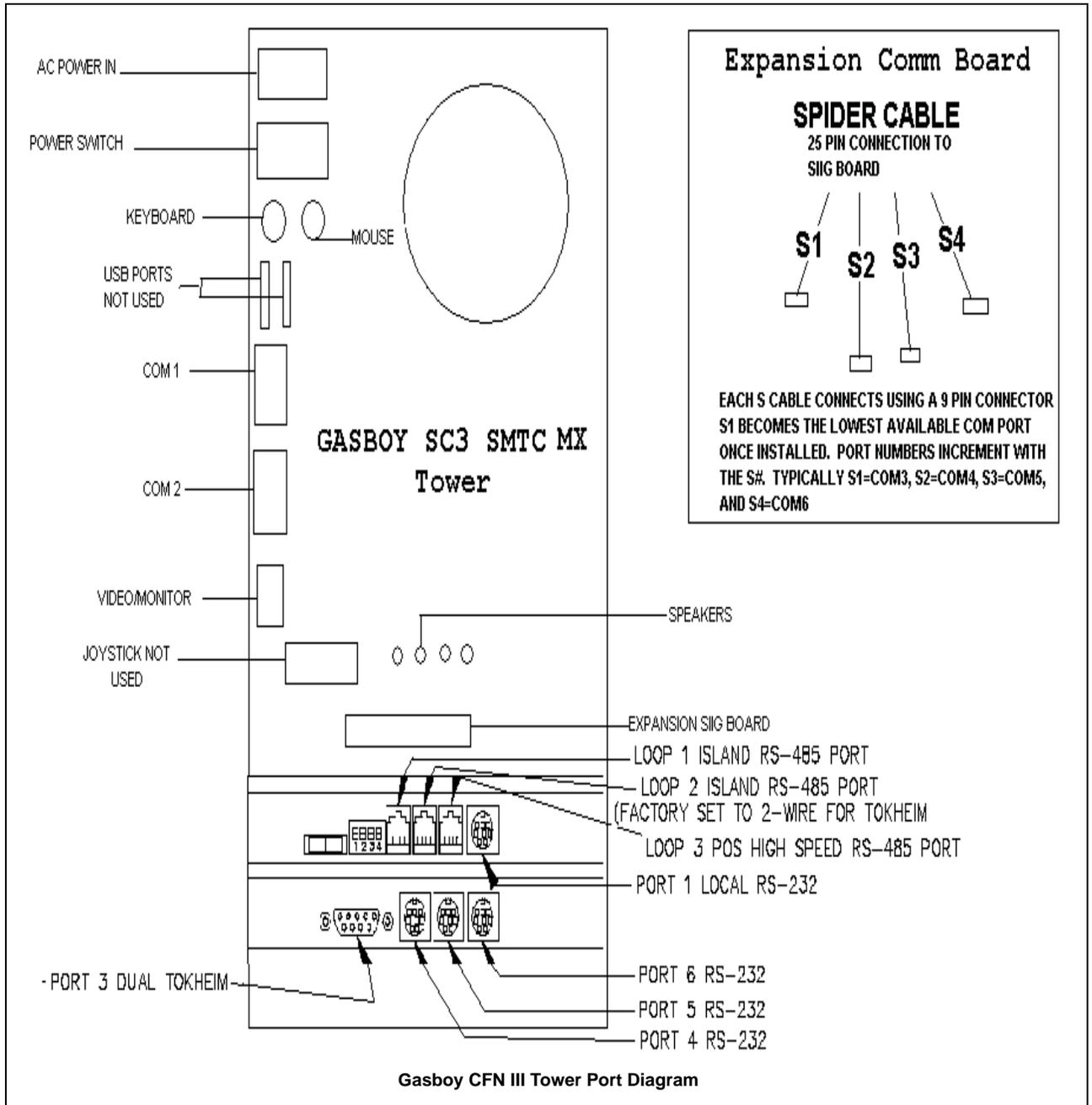
- Modem Name - Select the appropriate modem from the list provided in the software. The current production model is a Gasboy Quick Connect 2400 (#23 on the list).
- Baud Rate - 2400
- Port Number - (can be 4, 5 or 6). Refer to [“Appendix A - Port Wiring” on page 13](#) to identify the appropriate port numbers.

## Product Cross Reference

Refer to [“Product Codes” on page 10](#) for the appropriate NBS cross reference numbering.

*This page is intentionally left blank.*

# Appendix A - Port Wiring



---

*This page is intentionally left blank.*

---

# Appendix B - System Parameters Listing

---

## \*\*\* Page 1: \*\*\* System Parameters \*\*\*

1. Power up - Quarles
2. Site ID - 807
3. System ID - 0
4. Second System ID - 0
5. Network poll address - 1
6. Manager key permission - 10
7. PIN key - \*\*\*\*
8. Backup password - GASBOY
9. Lockout - Bit mapped, 4 digits, in RAM tables
10. Disk journal - No
11. Send generic log messages to disk journal - No
12. Locale code for site - USA

## \*\*\* Page 2: \*\*\* Club Card Format - Field Widths \*\*\*

13. Digits in system ID - 6
14. Digits in account # - 19
15. Digits in allocation - 4
16. Digits in vehicle # - 4
17. Digits in expiration date - 4
18. Digits in limitation code - 1
19. Digits in authorization code - 2
20. Digits in price level - 1
21. Digits in restriction code - 1

- 
- 22. Digits used in PIN calculation - 19
  - 23. Digits in checking PIN - 4
  - 24. Digits in savings PIN - 4
  - 25. Digits in credit PIN - 4

**\*\*\* Page 3: \*\*\* Club Card Format - Offsets \*\*\***

- 26. Allocation account offset - 0
- 27. Vehicle account offset - 0
- 28. Limitation code offset - 0
- 29. Authorization code offset - 1
- 30. Price level offset - 3
- 31. Restriction code offset - 4
- 32. PIN calculation offset - 0
- 33. Extra card digit offset - 0
- 34. CLUB bit-mapped account offset - 0

**\*\*\* Page 4: \*\*\* Reader Verification and Miscellany \*\*\***

- 35. Use remote verification (reader) - Credit
- 36. Use local verification (reader) - Club
- 37. Require PIN (reader) - None
- 38. Check PIN (reader) - Club
- 39. Check mod 10 (reader) - None
- 40. Check expiration date (reader) - Club Checking Savings Credit
- 41. Lockout on local verification (reader) - Club Credit
- 42. Lockout on remote verification (reader) - Club Checking Savings Credit
- 43. Reader default payment is - Credit
- 44. Show product price on reader display - Checking Savings Credit

- 
- 45. Pump must be on hook for reader transaction - No
  - 46. Auto receipt: When reentering the card, ICR prints without asking - No
  - 47. Auto receipt: Duplicate receipts printed - No
  - 48. Reader types that print receipt without asking after the sale - None
  - 49. Reader ignores PIN restriction on the card - No
  - 50. Keypads:
  - 51. Requires clerk approval for reader transactions - No
  - 52. Reader requires attendant card for transactions - No
  - 53. Reader requires patron/loyalty card for transactions - No

**\*\*\* Page 5: \*\*\* Console Verification \*\*\***

- 54. Use remote verification (console) - Credit
- 55. Use local verification (console) - Club
- 56. Require PIN (console) - None
- 57. Check PIN (console) - Club
- 58. Check mod 10 (console) - None
- 59. Check expiration date (console) - None
- 60. Lockout on local verification (console) - Club Credit
- 61. Lockout on remote verification (console) - Club Checking Savings Credit
- 62. Where to send Profit Point broadcast messages - PC loop 3 when PP is up
- 63. Console requires attendant card for transactions - No
- 64. Console requires patron/loyalty card for transactions - No

**\*\*\* Page 6: \*\*\* Gate Verification and Miscellany \*\*\***

- 65. Use remote verification (gate) - None
- 66. Use local verification (gate) - None
- 67. Require PIN (gate) - None

- 
- 68. Check PIN (gate) - Club
  - 69. Check mod 10 (gate) - Credit
  - 70. Check expiration date (gate) - Club Credit
  - 71. Lockout on local verification (gate) - Club Credit
  - 72. Lockout on remote verification (gate) - Club Credit
  - 73. Log gate openings - Yes
  - 74. All gate openings make transaction - No
  - 75. Select gate message - Select gate number

**\*\*\* Page 7: \*\*\* Fuel Point Verification and Miscellany \*\*\***

- 76. Use remote verification (Fuel Point) - None
- 77. Use local verification (Fuel Point) - None
- 78. Require PIN (Fuel Point) - None
- 79. Check PIN (Fuel Point) - Club
- 80. Check mod 10 (Fuel Point) - Checking Savings Credit
- 81. Check expiration date (Fuel Point) - Club Checking Savings Credit
- 82. Lockout on local verification (Fuel Point) - Club Credit
- 83. Lockout on remote verification (Fuel Point) - Club Checking Savings Credit
- 84. Require sys-ID match for track-II vehicle module - Yes

**\*\*\* Page 8: \*\*\* Serial Port Configuration \*\*\***

- 85. Remote port channel - 6
- 86. Log printer channel - 1
- 87. Special pump handler channel - None
- 88. Remote port baud rate - 2400
- 89. Remote port terminal type - 2
- 90. Remote port modem type - Direct or Dumb Modem (Full Duplex)

- 
- 91. Additional Hayes remote port command(s) - No
  - 92. Pumps on first Tokheim channel - 16
  - 93. Poll split Tokheim loops fast - No
  - 94. Host handler channel - 4
  - 95. Host handler baud rate - 2400
  - 96. Verification timeout (routers) - 95
  - 97. Verification timeout (CFN host) - 0
  - 98. Host router data:
  - 99. More router data:
  - 100. Send requests to host handler - Credit
  - 101. Host handler data - 16 14 00 00 00 00 00 00 00 00 00 00 00 78 02 00

### **CAUTION**

The Host Handler Channel (94), Host Handler BAUD rate (95), and Host Handler Data (101) should not be changed here. Changes in network parameters pertaining to modem type and other configuration settings that are important to credit verification will automatically change this parameter. Making changes here may render the credit verification system inoperable. This operation should only be performed at the suggestion of the Gasboy Technical Assistance Center.

### **\*\*\* Page 9: \*\*\* Miscellany \*\*\***

- 102. Null pad CR/LF - 0
- 103. Switch timeout - 80
- 104. Pulser timeout - 80
- 105. Fall-back price level - 0
- 106. STOP pumps on RS422 break - No
- 107. Blank pump display after - Never
- 108. Blank pump price display - No
- 109. Command search path - r;.,p;bin
- 110. Zero quantity disable after - 5

- 
- 111. Reuse current sale on POS if prev unpaid - Yes
  - 112. Log remote port commands executed - No
  - 113. Unique shift #'s for every console - Yes
  - 114. Hours required between NEXT SHIFT/DAY - 0
  - 115. Initial drawer value after NEXT SHIFT/DAY - 300
  - 116. Buffered cumulative totalizers on RESET TOTALS - No
  - 117. Blank lines for page break - 0
  - 118. Lines of text per page on direct printout - 66
  - 119. Logger initialization - 00 00 00 00 00 00 00 00 00 00

**\*\*\* Page 10: \*\*\* Tank Gauge \*\*\***

- 120. Log gauge delivery - Yes
- 121. Transaction for gauge delivery - No
- 122. Add to tank inventory after gauge delivery - No
- 123. Log fuel drop card - No
- 124. Transaction for fuel drop card - No
- 125. Add to tank inventory after fuel drop card - No
- 126. Log dipstick reading - No
- 127. Transaction for dipstick reading - No

**\*\*\* Page 11: \*\*\* Transaction Miscellany \*\*\***

- 128. Bank PIN D.E.S.- No
- 129. CFN PIN unencrypted - No
- 130. Cumulative limit time - 0
- 131. Cumulative fuel limit - 0
- 132. Save cash transactions - No
- 133. Save HAND transactions - Yes

- 
- 134. Allow supervisor cards - No
  - 135. Allow cardless use of code file - No
  - 136. Alternate expiration date - 00 00
  - 137. Number to add to club price level - 0
  - 138. Transaction file full warning percentage - 80
  - 139. Fuel authorization code for bank cards - None
  - 140. Check fuel authorization codes on post-pay - No
  - 141. Always request dollars from CFN host - None
  - 142. Send transactions to CFN host - None
  - 143. Use new format for CFN auth request - No
  - 144. Generate card swipe event - No

**\*\*\* Page 12: \*\*\* Receipt Configuration \*\*\***

- 145. System volume units - G
- 146. Minutes until ICR receipts expires - 20
- 147. Print MPG on receipt - No
- 148. Print manual # on receipt - Yes
- 149. Print cost per mile on receipt - No
- 150. Print odometer tenths on receipt - No
- 151. Print remaining allocation on receipt - No
- 152. Print transaction time on receipts - Yes
- 153. Print dollar amount for fuel on CLUB receipts - Yes
- 154. Text used on receipt for odometer - Odometer
- 155. Text used on receipt for manual number - Job Number
- 156. Text used on receipt for vehicle number - Vehicle #

---

**\*\*\* Page 13: \*\*\* Miles per Gallon (MPG) Package \*\*\***

- 157. MPG package used for club cards - No
- 158. MPG package used for bank cards - No
- 159. Low MPG - 3
- 160. High MPG - 20
- 161. Maximum miles between fuelings - 500
- 162. Club odometer tries allowed - 2
- 163. Bank odometer tries allowed - 2
- 164. Accept Club odometer - Yes
- 165. Accept Bank odometer - Yes
- 166. Use aux info field for vehicle number - Club

---

# Appendix C - 3.3 to 3.4K Upgrade Instructions

---

The upgrade instructions should be used by trained CFN technicians when upgrading a Quarles location from version 3.3X to 3.4K. They are not universal installation instructions. The following procedures are applicable only for Quarles locations and should not be attempted with any other site software.

## Creating Backups

To stop the site and create a backup, proceed as follows:

- 1 Clear the fuel island.
- 2 Type **STOP** at the command prompt to shut down the site.
- 3 Settle all pending network transactions.
- 4 Type **TRANBACK** to create a backup of the transactions.  
*Note: Transactions will not be restored after the upgrade.*
- 5 Type **SYSBACK** to create a backup of the site data.

## Preparing the System for Upgrade

To prepare the system for upgrade, proceed as follows:

- 1 Log on to the CFN as the Administrator.
- 2 Close the CFN III program.
- 3 Insert the 3.4K customer disk.
- 4 Navigate to **Start > Run**, type **CMD** and press **Enter**.
- 5 Type **A: Backup**.

## Installing the Upgraded Software

To install the software upgrade, proceed as follows:

- 1 Insert the 3.4K CD. Wait for 15 seconds for the Auto Run screen to appear.
- 2 Click **Install**. The **Open** option is highlighted.
- 3 Click **Ok**. The Welcome window appears.
- 4 Click **Next**.

- 
- 5 Enter the name and company, and click **Next**.  
*Note: Do not leave the name and/or company field blank.*
  - 6 Check only CFN III programs and click **Next**.  
*Note: Do not select Citgo® or Profit Point software for Quarles locations.*
  - 7 Click **Next** at the Check Setup Information window. You are prompted to insert the customer disk.
  - 8 Click **Ok**.
  - 9 Enter the Unit Serial Number and click **Next**.  
*Note: The Serial Number, Model Number and Ntep Number can be found on the front of new black SMTC towers and on the right panel near the back on older beige towers.*
  - 10 Enter the Unit Model Number and click **Next**.
  - 11 Enter the Ntep Number (if prompted) and click **Next**.  
*Note: This option may not be available on the older towers. If not available, leave the field blank.*
  - 12 Click **Ok** when a message “Post copy update batch successfully executed” appears.
  - 13 Click **Finish** at the SC III Dip Setup window.
  - 14 Click **Finish** when prompted to restart the computer. The CD must remain in the drive. The floppy should be removed.
  - 15 After restart, remove the CD and click **Finish** to restart the PC for the final time.  
*Note: When the CFN III system restarts, some network halted messages will appear prior to the sign-on prompt. This is normal and occurs because the NBS network setup is not yet complete.*
  - 16 Sign on to the SC III system.
  - 17 Type **REBOOT;A** and press **Enter** to load the new operating system and configuration into the RAM. After the reboot, sign back on and type **STATUS**. The status report should now reflect SC III V3.4K and NBS Router 1.2.3.7. Refer to [“Confirmation of Version Information” on page 5](#) for information on the status report.

---

## Restoring the Data

To restore the data, proceed as follows:

- 1 Type **NBS-I**. When prompted, save the changes and reboot the system.
- 2 Insert the customer floppy.
- 3 Type **NBS-R A:NBSQUARLES.TXT** and press **Enter**.
- 4 Type **NBS-M** and configure the modem.
- 5 Press **S** to save and press **Return**.  
*Note: Do not start the reboot process.*
- 6 Type **RESTORE EV FR A:SYSBACK.DTA** and press **Enter**.
- 7 Sign on and type **NBS-X**. Load the appropriate product cross reference information.
- 8 Type **NBS-E** and load the appropriate terminal number.
- 9 Set the maximum time in fall back to 120.
- 10 Type **SYS\_PAR** and set the appropriate system ID number on [“\\*\\*\\* Page 1: \\*\\*\\* System Parameters \\*\\*\\*” on page 15](#).
- 11 Reboot the system to complete the installation.
- 12 Refer to [“Site Configuration” on page 6](#) to ensure that all the settings are correct.
- 13 Run several test transactions and confirm the following:
  - Authorization is successful
  - Appropriate dispensers are activated
  - Receipt information is correct

---

*This page is intentionally left blank.*

# Index

---

## A

Alert symbol 3

## B

Barricading 3

## C

Card Handler 5  
Cash Flow Network 1  
Caution warnings 3

## D

Danger warnings 3

## E

Electrical  
  Shut-off 3  
Emergency  
  Electrical shut-off 3  
  Personnel (contacting) 4  
Evacuation 3  
Explosions  
  Preventing 3

## F

Fires  
  Preventing 3

## N

NBS 1  
NBS Network 11  
  Card 11  
  Modem 11  
  Parameters 11  
  Product 11  
Network Router 5

## P

Personnel  
  Emergency (informing) 4  
Port Wiring 13

## S

Safety Information 3  
  Alert symbol 3  
  Barricading 3  
  Emergency electrical shut-off 3  
  Emergency personnel 4

Evacuation 3  
NFPA regulations 3  
Open flames 4  
Preventing explosions and fires 3  
Regulations 3  
Replacement parts 3  
Safety symbols 3  
Shut-off 3  
Signal words 3  
Smoking 4  
Sparks 4  
Warning words 3  
Working alone 4

Safety symbols 3

Shut-off 3

  Emergency electrical 3

Signal words

  Safety 3

Site Configuration 6

  READER 8

    PUMP 8

    TRFMT 8

  SYS\_PAR 6

Site Controller (SC) III 5

Site Data 9

  Authorization 10

  Limitation 9

  Product Codes 10

System Parameter Listing 15

  Club card 15

  Console 17

  Fuel Point 18

  Gate verification 17

  Miles per gallon 22

  Reader verification 16

  Receipt 21

  Serial port 18

  System 15

  Tank Gauge 20

  Transaction 20

## U

Upgrade 23  
  3.3 to 3.4K 23  
  Install 23  
  Restoring 25

## W

Warning words 3  
Warnings 3

*Citgo<sup>®</sup> is a registered trademark of Citgo Petroleum Corporation. CRIND<sup>®</sup> and Gilbarco<sup>®</sup> are registered trademarks of Gilbarco Inc. Tokheim<sup>®</sup> is a registered trademark of Tokheim Holding B.V. Corporation. Wayne<sup>®</sup> is a registered trademark of Dresser Equipment Group Inc.*



© 2007 GASBOY  
7300 West Friendly Avenue · Post Office Box 22087  
Greensboro, North Carolina 27420  
Phone 1-800-444-5529 · <http://www.gasboy.com> · Printed in the U.S.A.  
MDE-4643 Quarles NBS Configuration and Software Installation Manual · March 2007