Foenix F256jr BASIC Reference Manual

Paul Robson

02-12-2022

Contents

1 Introduction

This manual is meant to be as complete as possible an introduction to the various hardware features of the F256jr. In it, I will attempt to explain each of the major subsystems of the F256jr and provide simple but practical examples of their use.

About the Machine

Ports

The connectors of the back of the F256jr from left to right are (see figure: **??**):

Audio Line Out the stereo audio output. These are standard RCA style line level outputs.

SD Card Slot for standard SD cards for storage of files and programs.

DVI Monitor Port for output to your monitor. This can be connected to the DVI input of a monitor or run through a simple DVI-VGA connector to use with an older VGA input.

IEC Serial Port supports the Commodore serial bus. A Commodore disk drive (1541, 1571, 1581, *etc.*), a Commodore compatible serial printer, or other device supporting the Commodore serial bus can be connected here.

Example: Print an A to the Screen

```
lda $0001       ; Save the current MMU setting
pha

lda #$02        ; Swap I/O Page 2 into bank 6
sta $0001

lda #'A'        ; Write 'A' to the upper left corner
sta $C000

pla             ; Restore the old MMU setting
sta $0001
```

2 Writing Programs in SuperBASIC

This manual is meant to be as complete as possible an introduction to the various hardware features of the F256jr. In it, I will attempt to explain each of the major subsystems of the F256jr and provide simple but practical examples of their use.

About the Machine

Ports

The connectors of the back of the F256jr from left to right are (see figure: **??**):

Audio Line Out the stereo audio output. These are standard RCA style line level outputs.

SD Card Slot for standard SD cards for storage of files and programs.

DVI Monitor Port for output to your monitor. This can be connected to the DVI input of a monitor or run through a simple DVI-VGA connector to use with an older VGA input.

IEC Serial Port supports the Commodore serial bus. A Commodore disk drive (1541, 1571, 1581, *etc.*), a Commodore compatible serial printer, or other device supporting the Commodore serial bus can be connected here.

Example: Print an A to the Screen

```
lda $0001       ; Save the current MMU setting
pha

lda #$02        ; Swap I/O Page 2 into bank 6
sta $0001

lda #'A'        ; Write 'A' to the upper left corner
sta $C000

pla             ; Restore the old MMU setting
sta $0001
```

3 Using Procedures

This manual is meant to be as complete as possible an introduction to the various hardware features of the F256jr. In it, I will attempt to explain each of the major subsystems of the F256jr and provide simple but practical examples of their use.

About the Machine

Ports

The connectors of the back of the F256jr from left to right are (see figure: **??**):

Audio Line Out the stereo audio output. These are standard RCA style line level outputs.

SD Card Slot for standard SD cards for storage of files and programs.

DVI Monitor Port for output to your monitor. This can be connected to the DVI input of a monitor or run through a simple DVI-VGA connector to use with an older VGA input.

IEC Serial Port supports the Commodore serial bus. A Commodore disk drive (1541, 1571, 1581, *etc.*), a Commodore compatible serial printer, or other device supporting the Commodore serial bus can be connected here.

Example: Print an A to the Screen

```
lda $0001       ; Save the current MMU setting
pha

lda #$02        ; Swap I/O Page 2 into bank 6
sta $0001

lda #'A'        ; Write 'A' to the upper left corner
sta $C000

pla             ; Restore the old MMU setting
sta $0001
```

4 Variables, arrays and typing

This manual is meant to be as complete as possible an introduction to the various hardware features of the F256jr. In it, I will attempt to explain each of the major subsystems of the F256jr and provide simple but practical examples of their use.

About the Machine

Ports

The connectors of the back of the F256jr from left to right are (see figure: **??**):

Audio Line Out the stereo audio output. These are standard RCA style line level outputs.

SD Card Slot for standard SD cards for storage of files and programs.

DVI Monitor Port for output to your monitor. This can be connected to the DVI input of a monitor or run through a simple DVI-VGA connector to use with an older VGA input.

IEC Serial Port supports the Commodore serial bus. A Commodore disk drive (1541, 1571, 1581, *etc.*), a Commodore compatible serial printer, or other device supporting the Commodore serial bus can be connected here.

Example: Print an A to the Screen

```
lda $0001       ; Save the current MMU setting
pha

lda #$02        ; Swap I/O Page 2 into bank 6
sta $0001

lda #'A'        ; Write 'A' to the upper left corner
sta $C000

pla             ; Restore the old MMU setting
sta $0001
```

5 Cross Development of BASIC Programs

This manual is meant to be as complete as possible an introduction to the various hardware features of the F256jr. In it, I will attempt to explain each of the major subsystems of the F256jr and provide simple but practical examples of their use.

About the Machine

Ports

The connectors of the back of the F256jr from left to right are (see figure: **??**):

Audio Line Out the stereo audio output. These are standard RCA style line level outputs.

SD Card Slot for standard SD cards for storage of files and programs.

DVI Monitor Port for output to your monitor. This can be connected to the DVI input of a monitor or run through a simple DVI-VGA connector to use with an older VGA input.

IEC Serial Port supports the Commodore serial bus. A Commodore disk drive (1541, 1571, 1581, *etc.*), a Commodore compatible serial printer, or other device supporting the Commodore serial bus can be connected here.

Example: Print an A to the Screen

```
lda $0001       ; Save the current MMU setting
pha

lda #$02        ; Swap I/O Page 2 into bank 6
sta $0001

lda #'A'        ; Write 'A' to the upper left corner
sta $C000

pla             ; Restore the old MMU setting
sta $0001
```

6 Keyword Reference

This manual is meant to be as complete as possible an introduction to the various hardware features of the F256jr. In it, I will attempt to explain each of the major subsystems of the F256jr and provide simple but practical examples of their use.

About the Machine

Ports

The connectors of the back of the F256jr from left to right are (see figure: **??**):

Audio Line Out the stereo audio output. These are standard RCA style line level outputs.

SD Card Slot for standard SD cards for storage of files and programs.

DVI Monitor Port for output to your monitor. This can be connected to the DVI input of a monitor or run through a simple DVI-VGA connector to use with an older VGA input.

IEC Serial Port supports the Commodore serial bus. A Commodore disk drive (1541, 1571, 1581, *etc.*), a Commodore compatible serial printer, or other device supporting the Commodore serial bus can be connected here.

Example: Print an A to the Screen

```
lda $0001       ; Save the current MMU setting
pha

lda #$02        ; Swap I/O Page 2 into bank 6
sta $0001

lda #'A'        ; Write 'A' to the upper left corner
sta $C000

pla             ; Restore the old MMU setting
sta $0001
```