

Production Boards

Mode 20H

1x	2x			DSP
2..32M	5..8M	10..16M	20..32M	2..8M
SHVC-1A0N SHVC-1A1B SHVC-1A3B SHVC-1A5B SHVC-1A8F SHVC-1A9F SHVC-1A1M SHVC-1A3M SHVC-1A5M SHVC-1A7M	SHVC-YA0N	SHVC-2A0N SHVC-2A3B SHVC-2A5B* SHVC-2A1M SHVC-2A3M SHVC-2A5M SHVC-2E3M	SHVC-BA0N* SHVC-BA1M SHVC-BA3M SHVC-BA5M	SHVC-1B0N SHVC-1B3B SHVC-1B5B

Mode 21H

1x	2x			
4..32M	5..8M	10..16M	20..32M	40..64M
SHVC-1J0N SHVC-1J3B SHVC-1J1M SHVC-1J3M SHVC-1J5M	SHVC-YJ0N	SHVC-2J0N SHVC-2J3B SHVC-2J5B SHVC-2J3M SHVC-2J5M*	SHVC-BJ0N SHVC-BJ1M SHVC-BJ3M SHVC-BJ5M	SHVC-LJ3M SHVC-LJ3R

DSP	
2..8M	10..16M
SHVC-1K0N SHVC-1K1B SHVC-1K1X	SHVC-2K0N SHVC-2K1X SHVC-2K3X

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SHVC - 1A0N

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Memory mapping of 2M, 4M, 8M, 16M or 32M ROM

U1	MASKROM
U2	CIC

ROM Registration Data

Address	Value	Description
FFD5	20H / 30H	Map Mode
FFD6	00H	Cartridge Type
FFD7	08H ~ 0CH	ROM Size
FFD8	00H	RAM Size

PCB Revision: 01, 02, 10, 20, 30

Bank	Address	Memory Mapped
00-7F	8000-FFFF	ROM
40-7F	0000-7FFF	ROM
80-FF	8000-FFFF	ROM
C0-FF	0000-7FFF	ROM

SHVC - YA0N

© 1993 Nintendo

Memory mapping of 5M, 6M or 8M ROM

U1	P0
U2	P1
U3	74LS00
U4	CIC

ROM Registration Data

Address	Value	Description
FFD5	20H / 30H	Map Mode
FFD6	00H	Cartridge Type
FFD7	0AH	ROM Size
FFD8	00H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped
00-7F	8000-FFFF	ROM
40-7F	0000-7FFF	ROM
80-FF	8000-FFFF	ROM
C0-FF	0000-7FFF	ROM

SHVC - 2A0N

© 1992 Nintendo

Memory mapping of 10M, 12M or 16M ROM

U1	P0
U2	P1
U3	74LS00
U4	CIC

ROM Registration Data

Address	Value	Description
FFD5	20H / 30H	Map Mode
FFD6	00H	Cartridge Type
FFD7	0BH	ROM Size
FFD8	00H	RAM Size

PCB Revision: 01, 10, 11, 20

Bank	Address	Memory Mapped
00-7F	8000-FFFF	ROM
40-7F	0000-7FFF	ROM
80-FF	8000-FFFF	ROM
C0-FF	0000-7FFF	ROM

SHVC - BA0N

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Memory mapping of 20M, 24M or 32M ROM

U1	P0
U2	P1
U3	74LS00
U4	LS32
U5	LS32
U6	CIC

ROM Registration Data

Address	Value	Description
FFD5	20H / 30H	Map Mode
FFD6	00H	Cartridge Type
FFD7	0CH	ROM Size
FFD8	00H	RAM Size

PCB Revision: SP1

Bank	Address	Memory Mapped

SHVC - 1A1B

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Memory mapping of 2M, 4M or 8M ROM and 16K SRAM

U1	MASKROM
U2	16K SRAM
U3	74LS139
U4	CIC

ROM Registration Data

Address	Value	Description
FFD5	20H / 30H	Map Mode
FFD6	02H	Cartridge Type
FFD7	08H ~ 0AH	ROM Size
FFD8	01H	RAM Size

PCB Revision: 01, 02, 04, 05, 06

Bank	Address	Memory Mapped
00-1F	8000-FFFF	ROM
70-7F	0000-FFFF	RAM
80-9F	8000-FFFF	ROM
F0-FF	0000-FFFF	RAM

SHVC - 1A3B

© 1990 Nintendo

Memory mapping of 2M, 4M or 8M ROM and 64K SRAM

U1	MASKROM
U2	64K SRAM
U3	74LS139
U4	CIC

ROM Registration Data

Address	Value	Description
FFD5	20H / 30H	Map Mode
FFD6	02H	Cartridge Type
FFD7	08H ~ 0AH	ROM Size
FFD8	03H	RAM Size

PCB Revision: 01, 11, 12, 13

Bank	Address	Memory Mapped
00-1F	8000-FFFF	ROM
70-7F	0000-FFFF	RAM
80-9F	8000-FFFF	ROM
F0-FF	0000-FFFF	RAM

PCB Revision: 20

Bank	Address	Memory Mapped
00-7F	8000-FFFF	ROM
70-7F	0000-7FFF	RAM
80-FF	8000-FFFF	ROM
F0-FF	0000-7FFF	RAM

SHVC - 1A3B (SP1)

© 1992 Nintendo

Memory mapping of 2M, 4M or 8M ROM and 64K SRAM

U1	MASKROM (N)
U2	64K SRAM
U3	74LS04
U4	74LS139
U5	CIC

ROM Registration Data

Address	Value	Description
FFD5	20H / 30H	Map Mode
FFD6	02H	Cartridge Type
FFD7	08H ~ 0AH	ROM Size
FFD8	03H	RAM Size

PCB Revision: SP1

Bank	Address	Memory Mapped

SHVC - 1A5B

© 1991 Nintendo

Memory mapping of 2M, 4M or 8M ROM and 256K SRAM

U1	MASKROM
U2	256K SRAM
U3	74LS139
U4	CIC

ROM Registration Data

Address	Value	Description
FFD5	20H / 30H	Map Mode
FFD6	02H	Cartridge Type
FFD7	08H ~ 0AH	ROM Size
FFD8	05H	RAM Size

PCB Revision: 03, 04

Bank	Address	Memory Mapped
00-1F	8000-FFFF	ROM
70-7F	0000-FFFF	RAM
80-9F	8000-FFFF	ROM
F0-FF	0000-FFFF	RAM

SHVC - 1A8F

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Memory mapping of 2M, 4M or 8M ROM and 2M Flash ROM

U1	8M MASKROM
U2	FLASH
U3	74AC139
U4	74AC08
U5	CIC

ROM Registration Data

Address	Value	Description
FFBD	00H ~ 08H	Expansion RAM Size
FFD5	20H / 30H	Map Mode
FFD6	01H	Cartridge Type
FFD7	08H ~ 0AH	ROM Size
FFD8	00H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped
00-7F	8000-FFFF	ROM
40-5F	0000-7FFF	FLASH
80-FF	8000-FFFF	ROM
C0-DF	0000-7FFF	FLASH

SHVC - 1A9F

© 1996 Nintendo

Memory mapping of 2M, 4M or 8M ROM and 4M Flash ROM

U1	MASKROM
U2	FLASH
U3	74ALS139
U4	CIC

ROM Registration Data

Address	Value	Description
FFBD	00H ~ 09H	Expansion RAM Size
FFD5	20H / 30H	Map Mode
FFD6	01H	Cartridge Type
FFD7	08H ~ 0AH	ROM Size
FFD8	00H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped
00-7F	8000-FFFF	ROM
40-5F	0000-7FFF	FLASH
80-FF	8000-FFFF	ROM
C0-DF	0000-7FFF	FLASH

SHVC - 2A3B

© 1992 Nintendo

Memory mapping of 10M, 12M or 16M ROM and 64K SRAM

U1	P0
U2	P1
U3	64K SRAM
U4	74LS139
U5	CIC

ROM Registration Data

Address	Value	Description
FFD5	20H / 30H	Map Mode
FFD6	02H	Cartridge Type
FFD7	0BH	ROM Size
FFD8	03H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped
00-1F	8000-FFFF	ROM (P0)
20-3F	8000-FFFF	ROM (P1)
70-7F	0000-7FFF	RAM
80-9F	8000-FFFF	ROM (P0)
A0-BF	8000-FFFF	ROM (P1)
F0-FF	0000-7FFF	RAM

SHVC - 2A5B

© 1992 Nintendo

Memory mapping of 10M, 12M or 16M ROM and 256K SRAM

U1	P0
U2	P1
U3	256K SRAM
U4	74LS139
U5	CIC

ROM Registration Data

Address	Value	Description
FFD5	20H / 30H	Map Mode
FFD6	02H	Cartridge Type
FFD7	0BH	ROM Size
FFD8	05H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped

SHVC - 1A1M

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Memory mapping of 2M, 4M, 8M, 16M or 32M ROM and 16K SRAM

U1	MASKROM
U2	16K SRAM
U3	MAD-1
U4	CIC

ROM Registration Data

Address	Value	Description
FFD5	20H / 30H	Map Mode
FFD6	02H	Cartridge Type
FFD7	08H ~ 0CH	ROM Size
FFD8	01H	RAM Size

PCB Revision: 01, 10, 11, 20

Bank	Address	Memory Mapped
00-7F	8000-FFFF	ROM
70-7F	0000-7FFF	RAM
80-FF	8000-FFFF	ROM
F0-FF	0000-7FFF	RAM

SHVC - 1A3M

© 1993 Nintendo

Memory mapping of 2M, 4M, 8M, 16M or 32M ROM and 64K SRAM

U1	MASKROM
U2	64K SRAM
U3	MAD-1
U4	CIC

ROM Registration Data

Address	Value	Description
FFD5	20H / 30H	Map Mode
FFD6	02H	Cartridge Type
FFD7	08H ~ 0CH	ROM Size
FFD8	03H	RAM Size

PCB Revision: 10, 20, 21, 30

Bank	Address	Memory Mapped
00-7F	8000-FFFF	ROM
70-7F	0000-7FFF	RAM
80-FF	8000-FFFF	ROM
F0-FF	0000-7FFF	RAM

SHVC - 1A5M

© 1993 Nintendo

Memory mapping of 2M, 4M, 8M, 16M or 32M ROM and 256K SRAM

U1	MASKROM
U2	256K SRAM
U3	MAD-1
U4	CIC

ROM Registration Data

Address	Value	Description
FFD5	20H / 30H	Map Mode
FFD6	02H	Cartridge Type
FFD7	08H ~ 0CH	ROM Size
FFD8	05H	RAM Size

PCB Revision: 01, 20

Bank	Address	Memory Mapped
00-7F	8000-FFFF	ROM
70-7F	0000-7FFF	RAM
80-FF	8000-FFFF	ROM
F0-FF	0000-7FFF	RAM

SHVC - 1A7M

© 1994 Nintendo

Memory mapping of 2M, 4M, 8M, 16M or 32M ROM and 1M SRAM

U1	MASKROM
U2	512/1M SRAM
U3	MAD-1
U4	CIC

ROM Registration Data

Address	Value	Description
FFD5	20H / 30H	Map Mode
FFD6	02H	Cartridge Type
FFD7	08H ~ 0CH	ROM Size
FFD8	06H ~ 07H	RAM Size

PCB Revision: 10

Bank	Address	Memory Mapped
00-7F	8000-FFFF	ROM
70-7F	0000-7FFF	RAM
80-FF	8000-FFFF	ROM
F0-FF	0000-7FFF	RAM

SHVC - 2A1M

© 1993 Nintendo

Memory mapping of 10M, 12M or 16M ROM and 16K SRAM

U1	P0
U2	P1
U3	16K SRAM
U4	MAD-1
U5	CIC

ROM Registration Data

Address	Value	Description
FFD5	20H / 30H	Map Mode
FFD6	02H	Cartridge Type
FFD7	0BH	ROM Size
FFD8	01H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped
00-7F	8000-FFFF	ROM
70-7F	0000-7FFF	RAM
80-FF	8000-FFFF	ROM
F0-FF	0000-7FFF	RAM

SHVC - 2A3M

© 1993 Nintendo

Memory mapping of 10M, 12M or 16M ROM and 64K SRAM

U1	P0
U2	P1
U3	64K SRAM
U4	MAD-1/R
U5	CIC

ROM Registration Data

Address	Value	Description
FFD5	20H / 30H	Map Mode
FFD6	02H	Cartridge Type
FFD7	0BH	ROM Size
FFD8	03H	RAM Size

PCB Revision: 01, 10, 11, 20

Bank	Address	Memory Mapped
00-3F	8000-FFFF	ROM (MAD-R)
00-7F	8000-FFFF	ROM (MAD-1)
70-7F	0000-7FFF	RAM
80-BF	8000-FFFF	ROM (MAD-R)
80-FF	8000-FFFF	ROM (MAD-1)
F0-FF	0000-7FFF	RAM

SHVC - 2A5M

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Memory mapping of 10M, 12M or 16M ROM and 256K SRAM

U1	P0
U2	P1
U3	256K SRAM
U4	MAD-1/R
U5	CIC

ROM Registration Data

Address	Value	Description
FFD5	20H / 30H	Map Mode
FFD6	02H	Cartridge Type
FFD7	0BH	ROM Size
FFD8	05H	RAM Size

PCB Revision: 01, 11

Bank	Address	Memory Mapped
00-3F	8000-FFFF	ROM (MAD-R)
00-7F	8000-FFFF	ROM (MAD-1)
70-7F	0000-7FFF	RAM
80-BF	8000-FFFF	ROM (MAD-R)
80-FF	8000-FFFF	ROM (MAD-1)
F0-FF	0000-7FFF	RAM

SHVC - BA1M

© 1994 Nintendo

Memory mapping of 20M, 24M or 32M ROM and 16K SRAM

U1	P0
U2	P1
U3	16K SRAM
U4	MAD-1
U5	CIC

ROM Registration Data

Address	Value	Description
FFD5	20H / 30H	Map Mode
FFD6	02H	Cartridge Type
FFD7	0CH	ROM Size
FFD8	01H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped
00-7F	8000-FFFF	ROM
70-7F	0000-7FFF	RAM
80-FF	8000-FFFF	ROM
F0-FF	0000-7FFF	RAM

SHVC - BA3M

© 1993 Nintendo

Memory mapping of 20M, 24M or 32M ROM and 64K SRAM

U1	P0
U2	P1
U3	64K SRAM
U4	MAD-1
U5	CIC

ROM Registration Data

Address	Value	Description
FFD5	20H / 30H	Map Mode
FFD6	02H	Cartridge Type
FFD7	0CH	ROM Size
FFD8	03H	RAM Size

PCB Revision: 01, 10, 20

Bank	Address	Memory Mapped
00-7F	8000-FFFF	ROM
70-7F	0000-7FFF	RAM
80-FF	8000-FFFF	ROM
F0-FF	0000-7FFF	RAM

SHVC - BA5M

© 1994 Nintendo

Memory mapping of 20M, 24M or 32M ROM and 256K SRAM

U1	P0
U2	P1
U3	256K SRAM
U4	MAD-1
U5	CIC

ROM Registration Data

Address	Value	Description
FFD5	20H / 30H	Map Mode
FFD6	02H	Cartridge Type
FFD7	0CH	ROM Size
FFD8	05H	RAM Size

PCB Revision: 01, 10

Bank	Address	Memory Mapped
00-7F	8000-FFFF	ROM
70-7F	0000-7FFF	RAM
80-FF	8000-FFFF	ROM
F0-FF	0000-7FFF	RAM

SHVC - 1B0N

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Memory mapping of 2M, 4M or 8M ROM and DSP

U1	MASKROM
U2	μPD77C25
U3	74LS139
U4	74HCU04
U5	CIC

ROM Registration Data

Address	Value	Description
FFD5	20H / 30H	Map Mode
FFD6	03H	Cartridge Type
FFD7	08H ~ 0AH	ROM Size
FFD8	00H	RAM Size

PCB Revision: 01, 02, 03

Bank	Address	Memory Mapped
00-1F	8000-FFFF	ROM
30-3F	8000-FFFF	DSP
80-9F	8000-FFFF	ROM
B0-BF	8000-FFFF	DSP

SHVC - 1B3B

© 1994 Nintendo

Memory mapping of 2M, 4M or 8M ROM, 64K SRAM and DSP

U1	MASKROM
U2	64K SRAM
U3	μPD77C25
U4	74LS139
U5	74HCU04
U6	CIC

ROM Registration Data

Address	Value	Description
FFD5	20H / 30H	Map Mode
FFD6	05H	Cartridge Type
FFD7	08H ~ 0AH	ROM Size
FFD8	03H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped
00-1F	8000-FFFF	ROM
20-3F	8000-FFFF	DSP
70-7F	0000-FFFF	RAM
80-9F	8000-FFFF	ROM
A0-BF	8000-FFFF	DSP
F0-FF	0000-FFFF	RAM

SHVC - 1B5B

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Memory mapping of 2M, 4M or 8M ROM, 256K SRAM and DSP

U1	MASKROM
U2	256K SRAM
U3	μPD77C25
U4	74LS139
U5	74HCU04
U6	CIC

ROM Registration Data

Address	Value	Description
FFD5	20H / 30H	Map Mode
FFD6	05H	Cartridge Type
FFD7	08H ~ 0AH	ROM Size
FFD8	05H	RAM Size

PCB Revision: 01, 02

Bank	Address	Memory Mapped
00-1F	8000-FFFF	ROM
20-3F	8000-FFFF	DSP
70-7F	0000-FFFF	RAM
80-9F	8000-FFFF	ROM
A0-BF	8000-FFFF	DSP
F0-FF	0000-FFFF	RAM

SHVC - 2B3B

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Memory mapping of 10M, 12M or 16M ROM, 64K SRAM and DSP

U1	P0
U2	P1
U3	64K SRAM
U4	μPD77C25
U5	74LS139
U6	74HCU04
U7	CIC

ROM Registration Data

Address	Value	Description
FFD5	20H / 30H	Map Mode
FFD6	05H	Cartridge Type
FFD7	0BH	ROM Size
FFD8	03H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped
00-1F	8000-FFFF	ROM (P0)
20-3F	8000-FFFF	ROM (P1)
60-6F	0000-7FFF	DSP
70-7F	0000-7FFF	RAM
80-9F	8000-FFFF	ROM (P0)
A0-BF	8000-FFFF	ROM (P1)
E0-EF	0000-7FFF	DSP
F0-FF	0000-7FFF	RAM

SHVC - 2E3M

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Memory mapping of 10M, 12M or 16M ROM, 64K SRAM and OBC1

U1	P0
U2	P1
U3	64K SRAM
U4	OBC1
U5	MAD-1
U6	CIC

ROM Registration Data

Address	Value	Description
FFD5	20H / 30H	Map Mode
FFD6	25H	Cartridge Type
FFD7	0BH	ROM Size
FFD8	03H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped
00-3F	6000-7FFF	RAM
00-1F	8000-FFFF	ROM (P0)
20-3F	8000-FFFF	ROM (P1)
70-71	6000-7FFF	RAM
80-BF	6000-7FFF	RAM
80-9F	8000-FFFF	ROM (P0)
A0-BF	8000-FFFF	ROM (P1)

SHVC - 1J0N

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Memory mapping of 4M, 8M, 16M or 32M ROM

U1	MASKROM
U2	CIC

ROM Registration Data

Address	Value	Description
FFD5	21H / 31H	Map Mode
FFD6	00H	Cartridge Type
FFD7	09H ~ 0CH	ROM Size
FFD8	00H	RAM Size

PCB Revision: 01, 10, 20

Bank	Address	Memory Mapped
00-3F	8000-FFFF	ROM
40-7F	0000-FFFF	ROM
80-BF	8000-FFFF	ROM
C0-FF	0000-FFFF	ROM

SHVC - YJ0N

© 1993 Nintendo

Memory mapping of 5M, 6M or 8M ROM

U1	P0
U2	P1
U3	74LS00
U4	CIC

ROM Registration Data

Address	Value	Description
FFD5	21H / 31H	Map Mode
FFD6	00H	Cartridge Type
FFD7	0AH	ROM Size
FFD8	00H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped
00-3F	8000-FFFF	ROM
40-7F	0000-FFFF	ROM
80-BF	8000-FFFF	ROM
C0-FF	0000-FFFF	ROM

SHVC - 2J0N

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Memory mapping of 10M, 12M or 16M ROM

U1	P0
U2	P1
U3	74LS00
U4	CIC

ROM Registration Data

Address	Value	Description
FFD5	21H / 31H	Map Mode
FFD6	00H	Cartridge Type
FFD7	0BH	ROM Size
FFD8	00H	RAM Size

PCB Revision: 01, 10, 11, 20

Bank	Address	Memory Mapped
00-3F	8000-FFFF	ROM
40-7F	0000-FFFF	ROM
80-BF	8000-FFFF	ROM
C0-FF	0000-FFFF	ROM

SHVC - 3J0N

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Memory mapping of 20M or 24M ROM

U1	P0
U2	P1
U3	P2
U4	74LS139
U5	CIC

ROM Registration Data

Address	Value	Description
FFD5	21H / 31H	Map Mode
FFD6	00H	Cartridge Type
FFD7	0CH	ROM Size
FFD8	00H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped
00-3F	8000-FFFF	ROM
40-7F	0000-FFFF	ROM
80-BF	8000-FFFF	ROM
C0-FF	0000-FFFF	ROM

SHVC - BJ0N

© 1992 Nintendo

Memory mapping of 20M, 24M or 32M ROM

U1	P0
U2	P1
U3	74LS00
U4	CIC

ROM Registration Data

Address	Value	Description
FFD5	21H / 31H	Map Mode
FFD6	00H	Cartridge Type
FFD7	0CH	ROM Size
FFD8	00H	RAM Size

PCB Revision: 01, 10, 20

Bank	Address	Memory Mapped
00-3F	8000-FFFF	ROM
40-7F	0000-FFFF	ROM
80-BF	8000-FFFF	ROM
C0-FF	0000-FFFF	ROM

SHVC - 1J3B

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Memory mapping of 4M, 8M or 16M ROM and 64K SRAM

U1	MASKROM
U2	64K SRAM
U3	74LS139
U4	CIC

ROM Registration Data

Address	Value	Description
FFD5	21H / 31H	Map Mode
FFD6	02H	Cartridge Type
FFD7	09H ~ 0BH	ROM Size
FFD8	03H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped
00-3F	8000-FFFF	ROM
20-3F	6000-7FFF	RAM
40-7F	0000-FFFF	ROM
80-BF	8000-FFFF	ROM
A0-BF	6000-7FFF	RAM
C0-FF	0000-FFFF	ROM

SHVC - 2J3B

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Memory mapping of 10M, 12M or 16M ROM and 64K SRAM

U1	P0
U2	P1
U3	64K SRAM
U4	74LS139
U5	74LS00
U6	CIC

ROM Registration Data

Address	Value	Description
FFD5	21H / 31H	Map Mode
FFD6	02H	Cartridge Type
FFD7	0BH	ROM Size
FFD8	03H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped
00-3F	8000-FFFF	ROM
20-3F	6000-7FFF	RAM
40-7F	0000-FFFF	ROM
80-BF	8000-FFFF	ROM
A0-BF	6000-7FFF	RAM
C0-FF	0000-FFFF	ROM

SHVC - 2J5B

© 1992 Nintendo

Memory mapping of 10M, 12M or 16M ROM and 256K SRAM

U1	P0
U2	P1
U3	256K SRAM
U4	74LS139
U5	74LS00
U6	CIC

ROM Registration Data

Address	Value	Description
FFD5	21H / 31H	Map Mode
FFD6	02H	Cartridge Type
FFD7	0BH	ROM Size
FFD8	05H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped
00-3F	8000-FFFF	ROM
20-3F	6000-7FFF	RAM
40-7F	0000-FFFF	ROM
80-BF	8000-FFFF	ROM
A0-BF	6000-7FFF	RAM
C0-FF	0000-FFFF	ROM

SHVC - 1J1M

© 1993 Nintendo

Memory mapping of 4M, 8M, 16M or 32M ROM and 16K SRAM

U1	MASKROM
U2	16K SRAM
U3	MAD-1
U4	CIC

ROM Registration Data

Address	Value	Description
FFD5	21H / 31H	Map Mode
FFD6	02H	Cartridge Type
FFD7	09H ~ 0CH	ROM Size
FFD8	01H	RAM Size

PCB Revision: 11, 20

Bank	Address	Memory Mapped
00-3F	8000-FFFF	ROM
20-3F	6000-7FFF	RAM
40-7F	0000-FFFF	ROM
80-BF	8000-FFFF	ROM
A0-BF	6000-7FFF	RAM
C0-FF	0000-FFFF	ROM

SHVC - 1J3M

© 1993 Nintendo

Memory mapping of 4M, 8M, 16M or 32M ROM and 64K SRAM

U1	MASKROM
U2	64K SRAM
U3	MAD-1
U4	CIC

ROM Registration Data

Address	Value	Description
FFD5	21H / 31H	Map Mode
FFD6	02H	Cartridge Type
FFD7	09H ~ 0CH	ROM Size
FFD8	03H	RAM Size

PCB Revision: 01, 10, 11, 20

Bank	Address	Memory Mapped
00-3F	8000-FFFF	ROM
20-3F	6000-7FFF	RAM
40-7F	0000-FFFF	ROM
80-BF	8000-FFFF	ROM
A0-BF	6000-7FFF	RAM
C0-FF	0000-FFFF	ROM

SHVC - 1J5M

© 1993 Nintendo

Memory mapping of 4M, 8M, 16M or 32M ROM and 256K SRAM

U1	MASKROM
U2	256K SRAM
U3	MAD-1
U4	CIC

ROM Registration Data

Address	Value	Description
FFD5	21H / 31H	Map Mode
FFD6	02H	Cartridge Type
FFD7	09H ~ 0CH	ROM Size
FFD8	05H	RAM Size

PCB Revision: 01, 11, 20

Bank	Address	Memory Mapped
00-3F	8000-FFFF	ROM
20-3F	6000-7FFF	RAM
40-7F	0000-FFFF	ROM
80-BF	8000-FFFF	ROM
A0-BF	6000-7FFF	RAM
C0-FF	0000-FFFF	ROM

SHVC - 2J3M

© 1993 Nintendo

Memory mapping of 10M, 12M or 16M ROM and 64K SRAM

U1	P0
U2	P1
U3	64K SRAM
U4	MAD-1/R
U5	CIC

ROM Registration Data

Address	Value	Description
FFD5	21H / 31H	Map Mode
FFD6	02H	Cartridge Type
FFD7	0BH	ROM Size
FFD8	03H	RAM Size

PCB Revision: 01, 10, 11

Bank	Address	Memory Mapped
00-3F	8000-FFFF	ROM
10-1F	6000-7FFF	RAM
30-3F	6000-7FFF	RAM
40-7F	0000-FFFF	ROM
80-BF	8000-FFFF	ROM
90-9F	6000-7FFF	RAM
B0-BF	6000-7FFF	RAM
C0-FF	0000-FFFF	ROM

SHVC - 2J5M

Information not available

SHVC - 3J3M

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Memory mapping of 20M or 24M ROM and 64K SRAM

U1	P0
U2	P1
U3	P2
U4	64K SRAM
U5	74LS139
U6	MAD-1
U7	CIC

ROM Registration Data

Address	Value	Description
FFD5	21H / 31H	Map Mode
FFD6	02H	Cartridge Type
FFD7	0CH	ROM Size
FFD8	03H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped

SHVC - BJ1M

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Memory mapping of 20M, 24M or 32M ROM and 16K SRAM

U1	P0
U2	P1
U3	16K SRAM
U4	MAD-1
U5	CIC

ROM Registration Data

Address	Value	Description
FFD5	21H / 31H	Map Mode
FFD6	02H	Cartridge Type
FFD7	0CH	ROM Size
FFD8	01H	RAM Size

PCB Revision: 10, 20

Bank	Address	Memory Mapped
00-3F	8000-FFFF	ROM
20-3F	6000-7FFF	RAM
40-7F	0000-FFFF	ROM
80-BF	8000-FFFF	ROM
A0-BF	6000-7FFF	RAM
C0-FF	0000-FFFF	ROM

SHVC - BJ3M

© 1994 Nintendo

Memory mapping of 20M, 24M or 32M ROM and 64K SRAM

U1	P0
U2	P1
U3	64K SRAM
U4	MAD-1
U5	CIC

ROM Registration Data

Address	Value	Description
FFD5	21H / 31H	Map Mode
FFD6	02H	Cartridge Type
FFD7	0CH	ROM Size
FFD8	03H	RAM Size

PCB Revision: 10, 20

Bank	Address	Memory Mapped
00-3F	8000-FFFF	ROM
20-3F	6000-7FFF	RAM
40-7F	0000-FFFF	ROM
80-BF	8000-FFFF	ROM
A0-BF	6000-7FFF	RAM
C0-FF	0000-FFFF	ROM

SHVC - BJ5M

© 1994 Nintendo

Memory mapping of 20M, 24M or 32M ROM and 256K SRAM

U1	P0
U2	P1
U3	256K SRAM
U4	MAD-1
U5	CIC

ROM Registration Data

Address	Value	Description
FFD5	21H / 31H	Map Mode
FFD6	02H	Cartridge Type
FFD7	0CH	ROM Size
FFD8	05H	RAM Size

PCB Revision: 10, 20

Bank	Address	Memory Mapped
00-3F	8000-FFFF	ROM
20-3F	6000-7FFF	RAM
40-7F	0000-FFFF	ROM
80-BF	8000-FFFF	ROM
A0-BF	6000-7FFF	RAM
C0-FF	0000-FFFF	ROM

SHVC - LJ3M

© 1995 Nintendo

Memory mapping of 40M, 48M or 64M ROM and 64K SRAM

U1	P0
U2	P1
U3	64K SRAM
U4	MAD-1
U5	CIC

ROM Registration Data

Address	Value	Description
FFD5	25H / 35H	Map Mode
FFD6	02H	Cartridge Type
FFD7	0DH	ROM Size
FFD8	03H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped
00-3F	8000-FFFF	ROM (P1)
40-7F	0000-FFFF	ROM (P1)
80-BF	6000-7FFF	RAM
80-BF	8000-FFFF	ROM (P0)
C0-FF	0000-FFFF	ROM (P0)

SHVC - LJ3R

© 1996 Nintendo

Memory mapping of 40M, 48M or 64M ROM, 64K SRAM and S-RTC

U1	P0
U2	P1
U3	64K SRAM
U4	MAD-1
U5	S-RTC
U6	CIC

ROM Registration Data

Address	Value	Description
FFD5	25H / 35H	Map Mode
FFD6	55H	Cartridge Type
FFD7	0DH	ROM Size
FFD8	03H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped
00-3F	2800-2FFF	S-RTC
00-3F	8000-FFFF	ROM (P1)
40-7F	0000-FFFF	ROM (P1)
80-BF	2800-2FFF	S-RTC
80-BF	6000-7FFF	RAM
80-BF	8000-FFFF	ROM (P0)
C0-FF	0000-FFFF	ROM (P0)

SHVC - 1K0N

© 1993 Nintendo

Memory mapping of 4M or 8M ROM and DSP

U1	MASKROM
U2	μPD77C25
U3	74LS139
U4	74HCU04
U5	CIC

ROM Registration Data

Address	Value	Description
FFD5	21H / 31H	Map Mode
FFD6	03H	Cartridge Type
FFD7	09H ~ 0AH	ROM Size
FFD8	00H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped
00-1F	6000-7FFF	DSP
00-3F	8000-FFFF	ROM
40-7F	0000-FFFF	ROM
80-9F	6000-7FFF	DSP
80-BF	8000-FFFF	ROM
C0-FF	0000-FFFF	ROM

SHVC - 1K1B

© 1992 Nintendo

Memory mapping of 4M or 8M ROM, 16K SRAM and DSP

U1	MASKROM
U2	16K SRAM
U3	μPD77C25
U4	74LS139
U5	74HCU04
U6	CIC

ROM Registration Data

Address	Value	Description
FFD5	21H / 31H	Map Mode
FFD6	05H	Cartridge Type
FFD7	09H ~ 0AH	ROM Size
FFD8	01H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped
00-1F	6000-7FFF	DSP
00-3F	8000-FFFF	ROM
20-3F	6000-7FFF	RAM
40-7F	0000-FFFF	ROM
80-9F	6000-7FFF	DSP
80-BF	8000-FFFF	ROM
A0-BF	6000-7FFF	RAM
C0-FF	0000-FFFF	ROM

SHVC - 1K1X

© 1993 Nintendo

Memory mapping of 4M or 8M ROM, 16K SRAM and DSP

U1	MASKROM
U2	16K SRAM
U3	μPD77C25
U4	MAD-2
U5	CIC

ROM Registration Data

Address	Value	Description
FFD5	21H / 31H	Map Mode
FFD6	05H	Cartridge Type
FFD7	09H ~ 0AH	ROM Size
FFD8	01H	RAM Size

PCB Revision: 01, 10

Bank	Address	Memory Mapped
00-1F	6000-7FFF	DSP
00-1F	8000-FFFF	ROM
20-3F	6000-7FFF	RAM
40-5F	0000-FFFF	ROM
80-9F	6000-7FFF	DSP
80-9F	8000-FFFF	ROM
A0-BF	6000-7FFF	RAM
C0-DF	0000-FFFF	ROM

SHVC - 2K0N

© 1995 Nintendo

Memory mapping of 10M, 12M or 16M ROM and DSP

U1	P0
U2	P1
U3	μPD77C25
U4	74LS139
U5	74HCU04
U6	CIC

ROM Registration Data

Address	Value	Description
FFD5	21H / 31H	Map Mode
FFD6	03H	Cartridge Type
FFD7	0BH	ROM Size
FFD8	00H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped
00-0F	6000-7FFF	DSP
00-3F	8000-FFFF	ROM
20-2F	6000-7FFF	DSP
40-7F	0000-FFFF	ROM
80-8F	6000-7FFF	DSP
80-BF	8000-FFFF	ROM
A0-AF	6000-7FFF	DSP
C0-FF	0000-FFFF	ROM

SHVC - 2K1X

© 1994 Nintendo

Memory mapping of 10M, 12M or 16M ROM, 16K SRAM and DSP

U1	P0
U2	P1
U3	16K SRAM
U4	μPD77C25
U5	MAD-2
U6	CIC

ROM Registration Data

Address	Value	Description
FFD5	21H / 31H	Map Mode
FFD6	05H	Cartridge Type
FFD7	0BH	ROM Size
FFD8	01H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped
00-3F	8000-FFFF	ROM
00-0F	6000-7FFF	DSP
10-1F	6000-7FFF	RAM
20-2F	6000-7FFF	DSP
30-3F	6000-7FFF	RAM
40-7F	0000-FFFF	ROM
80-BF	8000-FFFF	ROM
80-8F	6000-7FFF	DSP
90-9F	6000-7FFF	RAM
A0-AF	6000-7FFF	DSP
B0-BF	6000-7FFF	RAM
C0-FF	0000-FFFF	ROM

SHVC - 2K3X

© 1994 Nintendo

Memory mapping of 10M, 12M or 16M ROM, 64K SRAM and DSP

U1	P0
U2	P1
U3	64K SRAM
U4	μPD77C25
U5	MAD-2
U6	CIC

ROM Registration Data

Address	Value	Description
FFD5	21H / 31H	Map Mode
FFD6	05H	Cartridge Type
FFD7	0BH	ROM Size
FFD8	03H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped
00-3F	8000-FFFF	ROM
00-0F	6000-7FFF	DSP
10-1F	6000-7FFF	RAM
20-2F	6000-7FFF	DSP
30-3F	6000-7FFF	RAM
40-7F	0000-FFFF	ROM
80-BF	8000-FFFF	ROM
80-8F	6000-7FFF	DSP
90-9F	6000-7FFF	RAM
A0-AF	6000-7FFF	DSP
B0-BF	6000-7FFF	RAM
C0-FF	0000-FFFF	ROM

Production Boards

Mode 20H Super-FX

Mario Chip 1	GSU-1	GSU-2	
SHVC-1C0N SHVC-1C0N5S	SHVC-1CA0N5S SHVC-1CA0N6S SHVC-1CA6B	SHVC-1CB0N7S SHVC-1CB5B SHVC-1CB7B	

Mode 23H Super Accelerator (SA-1)

SA-1			
SHVC-1L0N3S* SHVC-1L0B* SHVC-1L3B* SHVC-1L5B* SHVC-1L8B*			

Mode 22H S-DD1

1x	2x		
SHVC-1N0N*	SHVC-LN3B*		

SNSP - 1C0N
SHVC - 1C0N

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This PCB is used solely for Star Fox / Star Wing

U1	MASKROM
U2	256K SRAM
U3	MARIO CHIP 1
U4	74LS139
U5	CIC

ROM Registration Data

Address	Value	Description
FFD5	20H	Map Mode
FFD6	13H	Cartridge Type
FFD7	0AH	ROM Size
FFD8	00H	RAM Size

PCB Revision: 01, 02, 03

Bank	Address	Memory Mapped
00-3F	3000-32FF	MARIO
00-1F	8000-FFFF	ROM
60-7F	0000-FFFF	RAM
80-BF	3000-32FF	MARIO
80-9F	8000-FFFF	ROM
E0-FF	0000-FFFF	RAM

SNSP - 1C0N5S
SHVC - 1C0N5S

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Memory mapping of 4M or 8M ROM, 256K SRAM and Mario Chip

U1	MASKROM
U2	256K SRAM
U3	MARIO CHIP
U4	74LS139
U5	CIC

ROM Registration Data

Address	Value	Description
FFD5	20H	Map Mode
FFD6	13H	Cartridge Type
FFD7	09H ~ 0AH	ROM Size
FFD8	00H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped
00-3F	3000-32FF	MARIO
00-1F	8000-FFFF	ROM
60-7F	0000-FFFF	RAM
80-BF	3000-32FF	MARIO
80-9F	8000-FFFF	ROM
E0-FF	0000-FFFF	RAM

SHVC - 1CA0N5S

© 1994 Nintendo

Memory mapping of 4M, 8M or 16M ROM, 256K SRAM and GSU-1

U1	MASKROM
U2	256K SRAM
U3	GSU-1 (-100P)
U4	74HCU04
U5	CIC

ROM Registration Data

Address	Value	Description
FFBD	05H	Expansion RAM Size
FFD5	20H	Map Mode
FFD6	14H	Cartridge Type
FFD7	09H ~ 0BH	ROM Size
FFD8	00H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped
00-3F	3000-32FF	GSU
00-3F	6000-7FFF	RAM (1)
00-3F	8000-FFFF	ROM (A)
40-5F	0000-FFFF	ROM (B)
70-71	0000-FFFF	RAM
80-BF	3000-32FF	GSU
80-BF	6000-7FFF	RAM (1)
80-BF	8000-FFFF	ROM (A)
C0-DF	0000-FFFF	ROM (B)
F0-F1	0000-FFFF	RAM

SHVC - 1CA0N6S

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Memory mapping of 4M, 8M or 16M ROM, 512K SRAM and GSU-1

U1	MASKROM
U2	512K SRAM
U3	GSU-1 (-100P)
U4	74HCU04
U5	CIC

ROM Registration Data

Address	Value	Description
FFBD	06H	Expansion RAM Size
FFD5	20H	Map Mode
FFD6	14H	Cartridge Type
FFD7	09H ~ 0BH	ROM Size
FFD8	00H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped
00-3F	3000-32FF	GSU
00-3F	6000-7FFF	RAM (1)
00-3F	8000-FFFF	ROM (A)
40-5F	0000-FFFF	ROM (B)
70-71	0000-FFFF	RAM
80-BF	3000-32FF	GSU
80-BF	6000-7FFF	RAM (1)
80-BF	8000-FFFF	ROM (A)
C0-DF	0000-FFFF	ROM (B)
F0-F1	0000-FFFF	RAM

SHVC - 1CA6B

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Memory mapping of 4M, 8M or 16M ROM, 512K SRAM and GSU-1

U1	MASKROM
U2	512K SRAM
U3	GSU-1 (-100P)
U4	74HCU04
U5	CIC

ROM Registration Data

Address	Value	Description
FFBD	06H	Expansion RAM Size
FFD5	20H	Map Mode
FFD6	15H	Cartridge Type
FFD7	09H ~ 0BH	ROM Size
FFD8	00H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped
00-3F	3000-32FF	GSU
00-3F	6000-7FFF	RAM (1)
00-3F	8000-FFFF	ROM (A)
40-5F	0000-FFFF	ROM (B)
70-71	0000-FFFF	RAM
80-BF	3000-32FF	GSU
80-BF	6000-7FFF	RAM (1)
80-BF	8000-FFFF	ROM (A)
C0-DF	0000-FFFF	ROM (B)
F0-F1	0000-FFFF	RAM

SHVC - 1CB0N7S

© 1995 Nintendo

Memory mapping of 4M, 8M or 16M ROM, 1M SRAM and GSU-2

U1	MASKROM
U2	512K/1M SRAM
U3	GSU-2
U4	74HCU04
U5	MM1026AF
U6	CIC

ROM Registration Data

Address	Value	Description
FFBD	06H / 07H	Expansion RAM Size
FFD5	20H	Map Mode
FFD6	14H	Cartridge Type
FFD7	09H ~ 0BH	ROM Size
FFD8	00H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped
00-3F	3000-32FF	GSU
00-3F	6000-7FFF	RAM (1)
00-3F	8000-FFFF	ROM (A)
40-5F	0000-FFFF	ROM (B)
70-71	0000-FFFF	RAM
80-BF	3000-32FF	GSU
80-BF	6000-7FFF	RAM (1)

SHVC - 1CB5B

© 1995 Nintendo

Memory mapping of 4M, 8M or 16M ROM, 256K SRAM and GSU-2

U1	MASKROM
U2	256K SRAM
U3	GSU-2
U4	74HCU04
U5	MM1026AF
U6	CIC

ROM Registration Data

Address	Value	Description
FFBD	05H	Expansion RAM Size
FFD5	20H	Map Mode
FFD6	15H	Cartridge Type
FFD7	09H ~ 0BH	ROM Size
FFD8	00H	RAM Size

PCB Revision: 01, 20

Bank	Address	Memory Mapped
00-3F	3000-32FF	GSU
00-3F	6000-7FFF	RAM (1)
00-3F	8000-FFFF	ROM (A)
40-5F	0000-FFFF	ROM (B)
70-71	0000-FFFF	RAM
80-BF	3000-32FF	GSU
80-BF	6000-7FFF	RAM (1)

SHVC - 1CB7B

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Memory mapping of 4M, 8M or 16M ROM, 1M SRAM and GSU-2

U1	MASKROM
U2	512K/1M SRAM
U3	GSU-2
U4	74HCU04
U5	MM1026AF
U6	CIC

ROM Registration Data

Address	Value	Description
FFBD	06H / 07H	Expansion RAM Size
FFD5	20H	Map Mode
FFD6	15H	Cartridge Type
FFD7	09H ~ 0BH	ROM Size
FFD8	10H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped
00-3F	3000-32FF	GSU
00-3F	6000-7FFF	RAM (1)
00-3F	8000-FFFF	ROM (A)
40-5F	0000-FFFF	ROM (B)
70-71	0000-FFFF	RAM
80-BF	3000-32FF	GSU
80-BF	6000-7FFF	RAM (1)

SHVC - 1L0N3S

© 1995 Nintendo

Memory mapping of 4M, 8M, 16M or 32M ROM, 64K SRAM and SA-1

U1	MASKROM
U2	64K SRAM
U3	SA1

ROM Registration Data

Address	Value	Description
FFD5	23H	Map Mode
FFD6	34H	Cartridge Type
FFD7	09H ~ 0CH	ROM Size
FFD8	03H	RAM Size

PCB Revision: 01, 10

Bank	Address	Memory Mapped

SNSP - 1L0B

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Memory mapping of 4M, 8M, 16M or 32M ROM and SA-1

U1	MASKROM
U2	SA1
U3	MM1026AF

ROM Registration Data

Address	Value	Description
FFD5	23H	Map Mode
FFD6	36H	Cartridge Type
FFD7	09H ~ 0CH	ROM Size
FFD8	00H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped

SNSP - 1L3B
SHVC - 1L3B

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Memory mapping of 4M, 8M, 16M or 32M ROM, 64K SRAM and SA-1

U1	MASKROM
U2	SRAM
U3	SA1
U4	MM1026AF

ROM Registration Data

Address	Value	Description
FFD5	23H	Map Mode
FFD6	35H	Cartridge Type
FFD7	09H ~ 0CH	ROM Size
FFD8	03H	RAM Size

PCB Revision: 01, 10, 11, 20

Bank	Address	Memory Mapped

SHVC - 1L5B

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Memory mapping of 4M, 8M, 16M or 32M ROM, 256K SRAM and SA-1

U1	MASKROM
U2	SRAM
U3	SA1
U4	MM1026AF

ROM Registration Data

Address	Value	Description
FFD5	23H	Map Mode
FFD6	35H	Cartridge Type
FFD7	09H ~ 0CH	ROM Size
FFD8	05H	RAM Size

PCB Revision: 02, 11, 20

Bank	Address	Memory Mapped

SHVC - 1L8B

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Memory mapping of 4M, 8M, 16M or 32M ROM, 512K SRAM and SA-1

U1	MASKROM
U2	SRAM
U3	SA1
U4	MM1026AF

ROM Registration Data

Address	Value	Description
FFD5	23H	Map Mode
FFD6	35H	Cartridge Type
FFD7	09H ~ 0CH	ROM Size
FFD8	06H	RAM Size

PCB Revision: 01, 10

Bank	Address	Memory Mapped

SNSP - 1N0N
SHVC - 1N0N

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Memory mapping of 4M, 8M, 16M or 32M ROM and S-DD1

U1	MASKROM
U2	S-DD1

ROM Registration Data

Address	Value	Description
FFD5	32H	Map Mode
FFD6	43H	Cartridge Type
FFD7	09H ~ 0CH	ROM Size
FFD8	00H	RAM Size

PCB Revision: 01, 10

Bank	Address	Memory Mapped

SHVC - LN3B

© 1996 Nintendo

Memory mapping of 40M, 48M or 64M ROM, 64K SRAM and S-DD1

U1	P0
U2	P1
U3	64K SRAM
U4	S-DD1
U5	MM1026AF

ROM Registration Data

Address	Value	Description
FFD5	32H	Map Mode
FFD6	45H	Cartridge Type
FFD7	0DH	ROM Size
FFD8	03H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped

Production Boards

Custom Processor

Capcom	SETA	Hudson Soft	
SHVC-1DC0N SHVC-2DC0N	SHVC-1DE3B SHVC-1DS0B	SHVC-BDH3B* SHVC-LDH3C*	

SHVC - 1DC0N

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Memory mapping of 16M ROM and CX4

U1	MASK ROM
U2	CX4
U3	CIC

ROM Registration Data

Address	Value	Description
FFBF	10H	Cartridge Type (Sub-number)
FFD5	20H	Map Mode
FFD6	F3H	Cartridge Type
FFD7	0BH	ROM Size
FFD8	00H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped
00-3F	6000-7FFF	CX4
00-3F	8000-FFFF	ROM
70-77	0000-7FFF	RAM ^{*1}
80-BF	6000-7FFF	CX4
80-BF	8000-FFFF	ROM

^{*1} Not installed. Zero (0) value returned when read.

SHVC - 2DC0N

© 1994 Nintendo

Memory mapping of 12M or 16M ROM and CX4

U1	P0 8M MASKROM
U2	P1 4M/8M MASKROM
U3	CX4
U4	CIC

ROM Registration Data

Address	Value	Description
FFBF	10H	Cartridge Type (Sub-number)
FFD5	20H	Map Mode
FFD6	F3H	Cartridge Type
FFD7	0BH	ROM Size
FFD8	00H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped
00-3F	6000-7FFF	CX4
00-3F	8000-FFFF	ROM
70-77	0000-7FFF	RAM *1
80-BF	6000-7FFF	CX4
80-BF	8000-FFFF	ROM

*1 Not installed. Zero (0) value returned when read.

SHVC - 1DE3B

© 1995 Nintendo

Memory mapping of 4M, 8M, 16M or 32M ROM, 64K SRAM and ST-018 / ST-019

U1	4M/8M/16M/32M MASKROM
U2	64K SRAM
U3	ST-018/ST-019
U4	74LS139
U5	MM1026
U6	CIC

ROM Registration Data

Address	Value	Description
FFBF	02H	Cartridge Type (Sub-number)
FFD5	30H	Map Mode
FFD6	F5H	Cartridge Type
FFD7	09H ~ 0CH	ROM Size
FFD8	03H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped
00-3F	3800-38FF	ST-018/ST-019
00-1F	8000-FFFF	ROM
40-5F	0000-FFFF	ROM
60-7F	0000-FFFF	RAM
80-BF	3800-38FF	ST-018/ST-019
80-9F	8000-FFFF	ROM
C0-DF	0000-FFFF	ROM
E0-FF	0000-FFFF	RAM

SHVC - 1DS0B

© 1992 Nintendo

Memory mapping of 4M or 8M ROM and ST-010 / ST-011

U1	MASKROM
U2	ST-010/ST-011
U3	HCU04
U4	CIC

ROM Registration Data

Address	Value	Description
FFD5	30H	Map Mode
FFD6	F6H	Cartridge Type
FFD7	09H ~ 0AH	ROM Size
FFD8	00H	RAM Size

PCB Revision: 01, 10

Bank	Address	Memory Mapped
00-FF	8000-FFFF	ROM
60-67	0000-3FFF	ST-010/ST-011
68-6F	0000-7FFF	ST-010/ST-011
E0-E7	0000-3FFF	ST-010/ST-011
E8-EF	0000-7FFF	ST-010/ST-011

SHVC - BDH3B

© 1996 Nintendo

Memory mapping of 20M, 24M or 32M ROM, 64K SRAM and SPC7110

U1	P MASKROM
U2	D MASKROM
U3	64K SRAM
U4	SPC7110
U5	MM1026AF
U6	CIC

ROM Registration Data

Address	Value	Description
FFD5	3AH	Map Mode
FFD6	F5H	Cartridge Type
FFD7	0CH	ROM Size
FFD8	03H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped

SHVC - LDH3C

© 1995 Nintendo

Memory mapping of 40M, 48M or 64M ROM, 64K SRAM, RTC-4513 and SPC7110

U1	8M MASKROM
U2	16M/32M MASKROM
U3	64K SRAM
U4	SPC7110
U5	RTC-4513
U6	MM1026AF
U7	CIC

ROM Registration Data

Address	Value	Description
FFD5	3AH	Map Mode
FFD6	F9H	Cartridge Type
FFD7	0DH	ROM Size
FFD8	03H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped

Production Boards

Broadcast Satellaview

MCC	Mode 20H	Mode 21H	Mode 23H
BSC-1A5B9P*	BSC-1A5M BSC-1A7M	BSC-1J3M BSC-1J5M*	BSC-1L3B*

BSC - 1A5B9P

© 1995 Nintendo

Memory mapping of 8M or 16M ROM, 256K SRAM, 4M PSRAM and MCC

U1	MCC
U2	8/16M MASKROM
U3	4M PSRAM
U4	256K SRAM
U5	MM1134

ROM Registration Data

Address	Value	Description
FFBD	09H	Expansion RAM Size
FFD5	20H / 30H	Map Mode
FFD6	E5H	Cartridge Type
FFD7	0AH ~ 0BH	ROM Size
FFD8	05H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped

BSC - 1A5M

© 1995 Nintendo

Memory mapping of 8M, 16M, 24M or 32M ROM and 256K SRAM

U1	MASKROM
U2	256K SRAM
U3	MAD-1
U4	CIC

ROM Registration Data

Address	Value	Description
FFD5	20H / 30H	Map Mode
FFD6	02H	Cartridge Type
FFD7	0AH ~ 0CH	ROM Size
FFD8	05H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped
00-1F	8000-FFFF	ROM (A) *
20-3F	8000-FFFF	ROM (B) *
70-7F	0000-7FFF	RAM
80-9F	8000-FFFF	ROM (C) *
A0-BF	8000-FFFF	ROM (B) *
F0-FF	0000-7FFF	RAM

* 24M ROM installed on PCB

BSC - 1A7M

© 1995 Nintendo

Memory mapping of 8M, 16M, 24M or 32M ROM and 1M SRAM

U1	MASKROM
U2	512K/1M SRAM
U3	MAD-1
U4	CIC

ROM Registration Data

Address	Value	Description
FFD5	20H / 30H	Map Mode
FFD6	02H	Cartridge Type
FFD7	0AH ~ 0CH	ROM Size
FFD8	06H ~ 07H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped
00-1F	8000-FFFF	ROM (A) *
20-3F	8000-FFFF	ROM (B) *
70-7F	0000-7FFF	RAM
80-9F	8000-FFFF	ROM (C) *
A0-BF	8000-FFFF	ROM (B) *
F0-FF	0000-7FFF	RAM

* 24M ROM installed on PCB

BSC - 1J3M

© 1995 Nintendo

Memory mapping of 8M or 16M ROM and 64K SRAM

U1	MASKROM
U2	64K SRAM
U3	MAD-1
U4	CIC

ROM Registration Data

Address	Value	Description
FFD5	21H / 31H	Map Mode
FFD6	02H	Cartridge Type
FFD7	0AH ~ 0BH	ROM Size
FFD8	03H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped
00-1F	8000-FFFF	ROM
20-3F	6000-7FFF	RAM
20-3F	8000-FFFF	BSMC
40-5F	0000-FFFF	ROM
60-7F	0000-FFFF	BSMC
80-9F	8000-FFFF	ROM
A0-BF	6000-7FFF	RAM
A0-BF	8000-FFFF	BSMC
C0-DF	0000-FFFF	ROM
E0-FF	0000-FFFF	BSMC

BSC - 1J5M

© 1996 Nintendo

Memory mapping of 8M, 16M, 24M or 32M ROM and 256K SRAM

U1	MASKROM
U2	256K SRAM
U3	MAD-1
U4	CIC

ROM Registration Data

Address	Value	Description
FFD5	21H / 31H	Map Mode
FFD6	02H	Cartridge Type
FFD7	0AH ~ 0CH	ROM Size
FFD8	05H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped

BSC - 1L3B

© 1996 Nintendo

Memory mapping of 8M, 16M, 24M or 32M ROM, 64K SRAM and SA-1

U1	MASKROM
U2	64K SRAM
U3	SA1
U4	MM1026AF

ROM Registration Data

Address	Value	Description
FFD5	23H	Map Mode
FFD6	35H	Cartridge Type
FFD7	0AH ~ 0CH	ROM Size
FFD8	03H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped

Evaluation Boards

Standard	DSP	Super-FX	SA-1
SHVC-1P0N SHVC-2P3B SHVC-4P5B SHVC-4PV5B SHVC-4PV7B* SHVC-8PV5B SHVC-E2A3S	SHVC-2Q0N* SHVC-2Q5B SHVC-2QW5B* SHVC-4QW5B*	SHVC-1R0N* SHVC-1RA3B6S SHVC-4RB3B7S*	SHVC-8X7B SA1-EPROM-01

SHVC - 1P0N

© 1990 Nintendo

Used to evaluate programs up to 4M

U1	EPROM (J)
U2	CIC

ROM Registration Data

Address	Value	Description
FFD5	20H / 30H	Map Mode
FFD6	00H	Cartridge Type
FFD7	08H ~ 09H	ROM Size
FFD8	00H	RAM Size

PCB Revision: 01

SHVC - 2P3B

© 1990 Nintendo

Used to evaluate programs up to 8M with 64K SRAM

U1	EPROM (J)
U2	EPROM (J)
U3	SRAM
U4	74F139
U5	CIC

ROM Registration Data

Address	Value	Description
FFD5	20H / 30H	Map Mode
FFD6	00H ~ 02H	Cartridge Type
FFD7	08H ~ 0AH	ROM Size
FFD8	00H ~ 03H	RAM Size

PCB Revision: 01

Bank	Address	Memory Mapped
00-1F	8000-FFFF	EPROM
40-5F	0000-FFFF	EPROM
70-7F	0000-FFFF	RAM
80-9F	8000-FFFF	EPROM
C0-DF	0000-FFFF	EPROM
F0-FF	0000-FFFF	RAM

SHVC - 4P5B

© 1991 Nintendo

Used to evaluate programs up to 16M with 16K, 64K or 256K SRAM

U1	EPROM (J)
U2	EPROM (J)
U3	EPROM (J)
U4	EPROM (J)
U5	16K SRAM
U6	64K SRAM
U7	256K SRAM
U8	74LS138
U9	CIC

ROM Registration Data

Address	Value	Description
FFD5	20H / 30H	Map Mode
FFD6	00H ~ 02H	Cartridge Type
FFD7	08H ~ 0BH	ROM Size
FFD8	00H ~ 05H	RAM Size

PCB Revision: 01

SHVC - 4PV5B (EP 7)

© 1992 Nintendo

Used to evaluate programs up to 16M with 16K, 64K or 256K SRAM

U1	EPROM (J)
U2	EPROM (J)
U3	EPROM (J)
U4	EPROM (J)
U5	16K/64K/256K SRAM
U6	PLD
U7	74LS157
U8	CIC

ROM Registration Data

Address	Value	Description
FFD5	20H / 30H 21H / 31H	Map Mode
FFD6	00H ~ 02H	Cartridge Type
FFD7	08H ~ 0BH	ROM Size
FFD8	00H ~ 05H	RAM Size

PCB Revision: 01

SHVC - 4PV7B

Information not available

SHVC - 8PV5B (EP 10)

© 1993 Nintendo

Used to evaluate software up to 32M with 16K, 64K or 256K SRAM

U1	EPROM (J)
U2	EPROM (J)
U3	EPROM (J)
U4	EPROM (J)
U5	EPROM (J)
U6	EPROM (J)
U7	EPROM (J)
U8	EPROM (J)
U9	16K/64K/256K SRAM
U10	MM1134
U11	EP330
U12	EP330
U13	LS157
U14	CIC

ROM Registration Data

Address	Value	Description
FFD5	20H / 30H 21H / 31H	Map Mode
FFD6	00H ~ 02H	Cartridge Type
FFD7	08H ~ 0CH	ROM Size
FFD8	00H ~ 05H	RAM Size

PCB Revision: 01

SHVC - 2Q0N

© 1990 Nintendo

Information not available

SHVC - 2Q5B (EP 4)

© 1991 Nintendo

Used to evaluate programs up to 8M with 256K SRAM and DSP

U1	4/2/1 EPROM (J)
U2	4/2/1 EPROM (J)
U3	SRAM
U4	μPD77C25/P25
U5	74F138
U6	74HCU04
U7	CIC

ROM Registration Data

Address	Value	Description
FFD5	20H / 30H	Map Mode
FFD6	03H ~ 05H	Cartridge Type
FFD7	08H ~ 0AH	ROM Size
FFD8	00H ~ 05H	RAM Size

PCB Revision: 01, 03

SHVC - 2QW5B

© 1992 Nintendo

Information not available

SHVC - 4QW5B

© 1993 Nintendo

Information not available

SHVC - 1R0N

© 1992 Nintendo

Information not available

SHVC - 1RA3B6S

© 1993 Nintendo

Used to evaluate software up to 8M with 64K / 512K SRAM and GSU-1

U1	8M-EPROM
U2	512K-SRAM
U3	64K-SRAM
U4	GSU1-100P
U5	HCU04
U6	MM1134
U7	CIC

ROM Registration Data

Address	Value	Description
FFBD	00H ~ 06H	Expansion RAM Size
FFD5	20H	Map Mode
FFD6	13H ~ 15H	Cartridge Type
FFD7	0AH	ROM Size
FFD8	00H ~ 03H	RAM Size

PCB Revision: 01

SHVC - 4RB3B7S

© 1993 Nintendo

Information not available

SHVC - 8X7B

© 1994 Nintendo

Used to evaluate software up to 32M with 1M SRAM and SA-1

U1	4M-EPROM
U2	4M-EPROM
U3	4M-EPROM
U4	4M-EPROM
U5	4M-EPROM
U6	4M-EPROM
U7	4M-EPROM
U8	4M-EPROM
U9	512K/1M SRAM
U10	MM1026
U11	SA1
U12	74AC138

ROM Registration Data

Address	Value	Description
FFD5	23H	Map Mode
FFD6	34H ~ 35H	Cartridge Type
FFD7	09H ~ 0CH	ROM Size
FFD8	00H ~ 07H	RAM Size

PCB Revision: 01

SHVC - E2A3S

© 1990 Nintendo

Used to evaluate software up to 8M with 64K SRAM

U1	EPROM (J)
U2	EPROM (J)
U3	SRAM
U4	CIC
U5	74F139
U6	74F00
U7	MM1026

ROM Registration Data

Address	Value	Description
FFD5	20H / 30H	Map Mode
FFD6	00H ~ 02H	Cartridge Type
FFD7	08H ~ 0AH	ROM Size
FFD8	00H ~ 03H	RAM Size

PCB Revision:

PCB Identification CodesSHVC-**NMmSO**-XX**N** **Number of Mask ROMs**

1	1 ROM
Y	2 ROMs selectable at 4M
2	2 ROMs selectable at 8M
B	2 ROMs selectable at 16M
L	2 ROMs selectable at 32M
3	3 ROMs selectable at 8M and 16M

Mm **Mode**

A	Mode 20H
B	Mode 20H DSP
Cm	Mode 20H Super FX
Dm	Custom Processor
E	Mode 20H OBC1
J	Mode 21H
K	Mode 21H DSP
L	Mode 23H SA-1
N	Mode 22H S-DD1

S **SRAM**

1	16K SRAM
3	64K SRAM
5	256K SRAM
6	512K SRAM
7	1M SRAM
8	2M SRAM
9	4M SRAM

O **Other**

N	None
B	Battery Backup
C	RTC-4513
F	FLASH
M	MAD-1
R	S-RTC
X	MAD-2

GLOSSARY

SHVC	Super Home Video Computer
SNS	Super Nintendo System
SNSN	Super Nintendo System (NTSC)
SNSP	Super Nintendo System (PAL)