

SCD-DZV11
8-Channel Asynchronous
Multiplexer for LSI-11
Manual

SCD-DZV11

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Section 1 - General Information

1.1 INTRODUCTION

This manual provides the information needed to install and operate the SCD-DZV11 multiplexed asynchronous serial line interface manufactured by Sigma Information Systems, Anaheim, California. The material in this manual is arranged into the following sections:

Section 1 - GENERAL INFORMATION. This section contains a general description of the SCD-DZV11. Specifications are included.

Section 2 - INSTALLATION. This section explains the requirements and procedures for equipment installation. Interface information and switch settings are provided. Diagnostic testing information is included.

Section 3 - PROGRAMMING. A description of the SCD-DZV11 control registers is presented for programming the multiplexer.

APPENDIX - Appendix A contains a list of the Q bus signals and associated pin assignments. Appendix B contains a complete list of address and vector switch settings.

1.2 GENERAL DESCRIPTION

The SCD-DZV11 provides a buffered, program-controlled interface between an LSI-11* and up to eight local or remote terminals. The dual-wide module plugs directly into any Q bus slot; two cables are optional, each terminating in four 25-pin connectors for connection to terminals.

The EIA multiplexer is suitable for applications such as real-time/transaction/communication processing and timesharing operation.

Local operation is possible at speeds up to 19200 baud. Remote operation using public switched telephone lines is possible. Data set control is provided for auto answer (dial-up) operation with modems capable of full-duplex operation such as Bell Models 103 or 113. Remote operation over private lines for full duplex point-to-point, or full duplex multipoint (as a master control station) is also possible. The SCD-DZV11 does not support half-duplex operation with secondary transmit and receive. Half-duplex modems, such as Bell 202, can be used on leased lines with these latter restrictions. Figure 1-1 illustrates example applications of the SCD-DZV11.

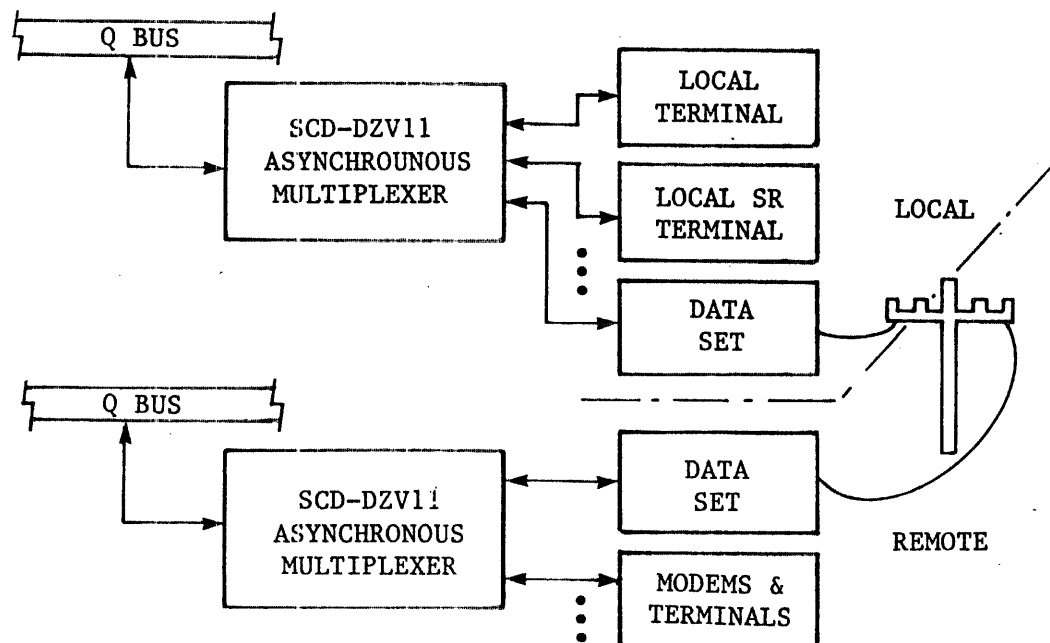


FIGURE 1-1: EXAMPLE APPLICATIONS OF THE SCD-DZV11

*LSI-11, Q bus and DEC are registered trademarks of Digital Equipment Corporation

1.3 FEATURES

- Software compatible with diagnostics and software designed for the DEC* DZ11.
- Programmable speeds up to 9600 baud and formatting on a per-line basis
- Data set control allows auto answer (dial-up) operation for full duplex modems
- FIFO buffered input transfers reduce interrupt overhead and improve latency.
- Dual-wide module plugs directly into any Q bus* slot.

1.4 BLOCK DIAGRAM

The SCD-DZV11 consists of three basic components: Q bus interface, control logic, and line interface, as shown in Figure 1-2.

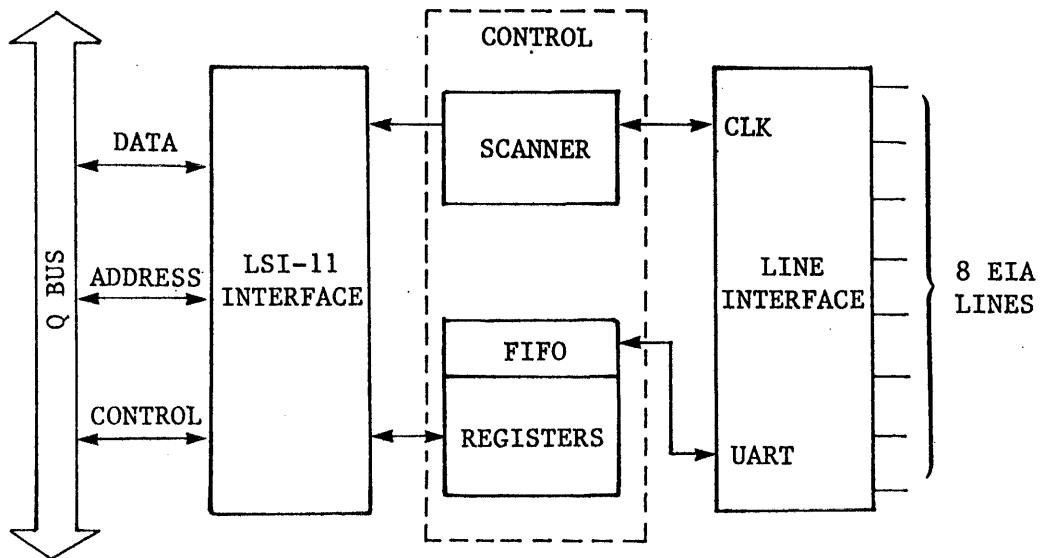


FIGURE 1-2: SCD-DZV11 BLOCK DIAGRAM

1.4.1 Q Bus Interface

All transactions between the Q bus and the SCD-DZV11 control logic depend on the Q bus interface, which performs data handling, address recognition, and interrupt control.

DATA HANDLING. The LSI-11 sends and receives data to/from registers via the control logic, and provides the voltage signals that determine transmission/reception of data to/from the Q bus.

ADDRESS RECOGNITION. Preselected LSI-11 address recognition activates the proper load (Write and Read signals) that is used to route the I/O data to the desired locations.

INTERRUPT CONTROL. This function initiates and controls interrupt processing between the SCD-DZV11 and the LSI-11 central processor.

1.4.2 Control Logic

The control logic, which consists of the scanner and registers, generates receiver/transmitter timing and control signals. The scanner, which produces data flow to/from the appropriate line, continuously analyzes information from the line interface and registers.

Four device registers are utilized to provide six 16-bit accessible registers. The registers store I/O data, monitor control signal conditions, and determine operating status. The registers are accessible in bytes and/or words and, depending on the operation, can be read or written.

1.4.3 Line Interface

The SCD-DZV11 is located between the LSI-11 parallel data path and serial data paths (terminals or telephone lines). The line interface provides serial-to-parallel and parallel-to-serial data format conversion. Each line is converted by independent universal asynchronous receiver/transmitter integrated circuits (UARTs). The line interface also allows the line receiver or driver to convert TTL voltage levels in the SCD-DZV11 to correspond to external device input lines.

1.5 SPECIFICATIONS

Device Address: 760000 to 777776 (octal) Switch Selectable

Vector Interrupt: 000 to 776 (octal) Switch Selectable

Operation: Full-duplex

Data Format: Program controlled, asynchronous, serial-by-bit

Start Bits: 1

Stop Bits: 1 or 1-1/2 (5-level codes only), or 2

Character Size: 5, 6, 7 or 8 bits. Program controlled. No parity bit.

Parity: Odd, even or none. Program controlled.

Bit Polarities:	<u>Q bus</u>	<u>SCD-DZV11</u>	<u>EIA OUT</u>
Data Signal:	Low = 1 High = 0	High = 1 Low = 0	1 = Mark 0 = Space
Control Signal:	Low = 1 High = 0	High = 1 Low = 0	1 = Off 0 = On

Order of Bit: Transmit/Receive low-order bit first.

Break: Can be generated and detected on each line.

Baud Rates: Program controlled: 50, 75, 110, 134.5, 150, 300, 600, 1200, 1800, 2400, 4800, 7200, 9600, 200 and 19,200.

Throughput: $21,940 \text{ characters/second} = (\text{bits/second} \times \text{number of lines} \times \text{direction}) / (\text{bits/character})$.

Example: $(9600 \times 8 \times 2) / 7 = 21,940 \text{ characters/second}$.

NOTE: Theoretical maximum is 21,940. Actual throughput depends on other factors such as type of CPU, system software, etc.

EIA Interface: Each line provides voltage levels and connector pins that conform to Electronic Industries Association (EIA) standard RS232C and CCITT recommendation V.24. The leads supported by this option are:

Pin 1 *Protective Ground
 Pin 2 Transmit Data
 Pin 3 Receive Data
 Pin 4 Request to Send
 Pin 7 *Signal Ground
 Pin 8 Carrier
 Pin 20 Data Terminal Ready
 Pin 22 Ring
 Pin 25 Force Busy

*Protective and Signal Ground are connected.

NOTE: Request to Send is connected to Data Terminal Ready via a jumper. This allows control of Request to Send line for full-duplex modem applications that use the RTS circuit.

Power Requirements: +5VDC at 2.8A (typical)
 +12VDC at 0.2A (typical)

Distortion: "Space to Mark" and "Mark to Space" in a received character = 40% MAX. Speed distortion in a received character for all baud rates = 4%. Speed distortion from transmitter for baud rates = less than 2%.

Interrupts: RDONE Occurs each time a character appears at the FIFO output.

SA FIFO Alarm. Occurs after 16 characters enter the FIFO. Rearmed by reading the FIFO. This interrupt disables the RDONE interrupt.

TRDY Occurs when the scanner finds a line ready to transmit on.

Operating Temperature: 5°C to 50°C (41°F to 122°F).
 Reduce 1.8°C/1000 meters (1.0°F/1000 feet) for operation at altitudes above sea level.

Relative Humidity: 10% to 95% with maximum wet bulb of 32°C (90°F) and a minimum dewpoint of 2°C (36°F).

Section 2 - Installation

2.1 UNPACKING AND INSPECTION

The SCD-DZV11 is shipped in a special packing carton designed to keep the equipment from vibrating and to give it maximum protection during shipment. The packing carton should be retained in the event the product requires reshipment.

To unpack the SCD-DZV11, remove any packing material and visually inspect for damage. If any damage has occurred, notify Sigma Information Systems immediately.

Verify the carton contains the following items:

- SCD-DZV11 dual-wide module
- Two 40-pin cables, each terminated with four 25-pin connectors (optional)
- SCD-DZV11 8-Channel Asynchronous Multiplexer Manual.

2.2 COMPONENT LOCATIONS

Before installing the module, ensure that jumpers and switch settings are correct. Figure 2-1 shows the component locations for jumper and switch selections.

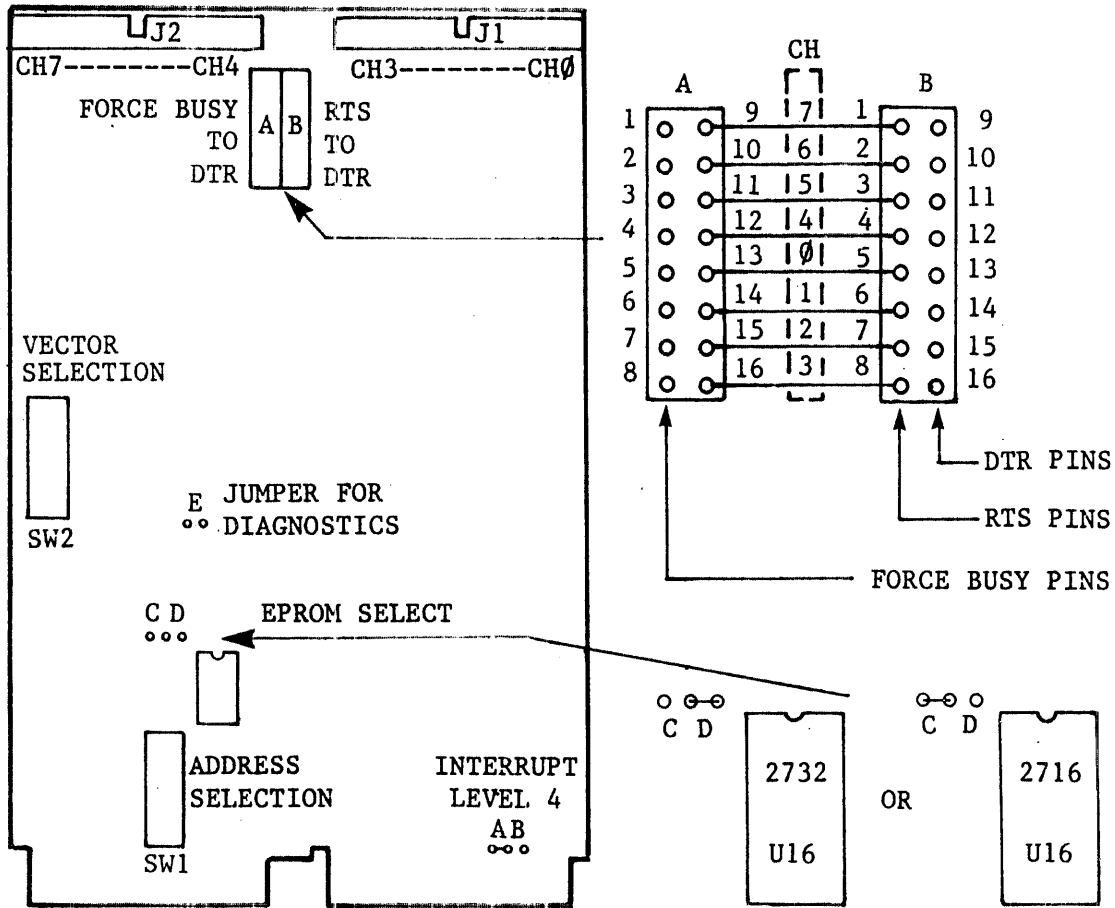


FIGURE 2-1: COMPONENT LOCATIONS

2.3 ADDRESS AND VECTOR SEQUENCE ASSIGNMENTS

The SCD-DZV11 device and vector addresses are selected from floating device and vector address spaces that allow the multiplexer to be assigned the lowest space in a defined sequence of addressable options. The device floating address space is 760010 to 773776 (octal), and the vector space is 300 to 776 (octal). The sequence for the floating spaces are defined in Digital's "Memories and Peripherals - Microcomputer Handbook Series." Examples illustrating the vector/device address assignments are shown in Section 2.4. A complete list of vector/device address switch settings are shown in Appendix B.



2.4 ADDRESS AND VECTOR SWITCH SELECTION

Address selection ranges from 760000 to 777770 by octal decoding of switch SW1. Device registers R0, R2, R4 and R6 (Section 3.1) are assigned in a contiguous block by setting the CSR (R0) address where 7XXXX0 = R0. The sequential address (7XXXX2 = R2, 7XXXX4 = R4, 7XXXX6 = R6) are automatically implemented.

The SCD-DZV11 utilizes the floating point address space that starts at 760010 and extends to 764000. Refer to DEC's Microcomputer Interface Handbook for alternate address assignments, and to Appendix B for a complete list of address switch settings.

Examples of the CSR address data bits with associated switch positions are shown below.

		<u>SW1</u>				<u>ADDRESS</u>				
SW1 POSITIONS	3	5	8	9	7	4	2	1	10	6
SW1 SETTINGS:	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON
ADDRESS: 7	6	0			0			1		0
SW1 POSITIONS	3	5	8	9	7	4	2	1	10	6
SW1 SETTINGS:	OFF	OFF	OFF	OFF	OFF	ON	ON	OFF	OFF	OFF
ADDRESS: 7	6	0			3			0		0
SW1 POSITIONS	3	5	8	9	7	4	2	1	10	6
SW1 SETTINGS:	OFF	OFF	ON	OFF	OFF	OFF	ON	ON	OFF	ON
ADDRESS: 7	6	2			1			5		0

X

Vector selection ranges from 300 to 770, where XX0 is set by octal decoding of switch SW2. Device registers R0, R2, R4 and R6 (Section 3.1) are assigned in a contiguous block by setting the CSR (R0) vector where XX0 = R0. The sequential vectors (XX2 = R2, XX4 = R4, XX6 = R6) are automatically implemented.

The SCD-DZV11 utilizes the floating point interrupt vector space that starts at 300 and extends to 777. Refer to DEC's Microcomputer Interface Handbook for floating vector conventions, and to Appendix B for a complete list of vector switch setting.

The CSR vector data bits with associated switch positions are shown in the examples below.

SW2 VECTOR

SW2 POSITIONS:	7	6	5	4	3	2	
SW2 SETTINGS:	ON	OFF	OFF	ON	ON	ON	
VECTOR:	3			0			0

SW2 POSITIONS:	7	6	5	4	3	2	
SW2 SETTINGS:	OFF	ON	ON	OFF	OFF	OFF	
VECTOR:	4			7			0

SW2 POSITIONS:	7	6	5	4	3	2	
SW2 SETTINGS:	OFF	OFF	OFF	OFF	ON	OFF	
VECTOR:	7			5			0

2.5 VECTOR PRIORITY JUMPER

The SCD-DZV11 can be configured to operate at level 4 or level 5. The module is shipped configured at level 4, which is determined by a jumper installed in location "A" as shown in Figure 2-1. Level 5 can be selected by removing the jumper in location "A" and replacing it in location "B."

2.6 FULL-DUPLEX MODEM JUMPER CONFIGURATION

Jumpers A and B control full-duplex modem operation. Each line is individually jumpered. The B jumpers connects Data Terminal Ready (DTR) to Request to Send (RTS). This allows the SCD-DZV11 to assert both DTR and RTS when using a modem that requires control of RTS. The A jumpers are also connected to the DTR lead for use in modems that implement the Force Busy function. Both jumpers should be in for diagnostic operation. Remove if there is interference with modem operation. Figure 2-2 defines the A and B jumper logic configurations.

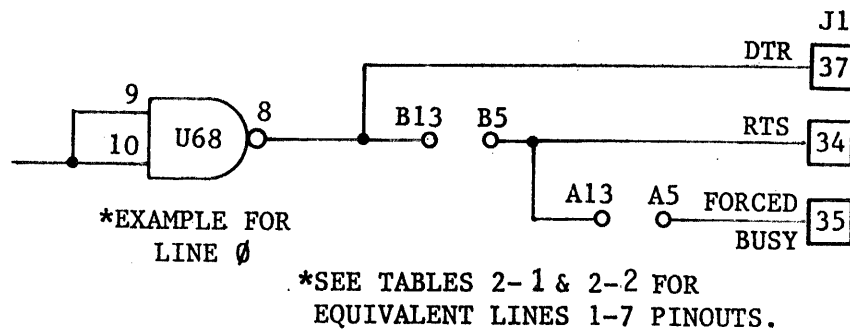


FIGURE 2-2: FULL-DUPLEX MODEM JUMPER CONFIGURATIONS

2.7 CONNECTOR PIN ASSIGNMENTS

A 40-conductor ribbon cable is connected to J1 and J2. The pin assignments for these connectors are shown in Tables 2-1 and 2-2, respectively.

PIN	DESCRIPTION	PIN	DESCRIPTION
1	GND	2	XMTDTA 3
3	RCVDDTA 3	4	DTR3
5	RING 3	6	FORCED BSY 3
7	RTS3	8	N/C
9	GND	10	CARRIER 3
11	GND	12	XMTDTA 2
13	RCVDDTA 2	14	DTR2
15	RING 2	16	FORCED BSY 2
17	RTS 2	18	N/C
19	GND	20	CARRIER 2
21	CARRIER 1	22	GND
23	N/C	24	RTS 1
25	FORCED BSY 1	26	RING 1
27	DTR1	28	RCVDDTA
29	XMTDTA 1	30	GND
31	CARRIER 0	32	GND
33	N/C	34	RTS 0
35	FORCED BSY 0	36	RING 0
37	DTR0	38	RCVDDTA 0
39	XMTDTA 0	40	GND

TABLE 2-1: J1 PIN ASSIGNMENTS

PIN	DESCRIPTION	PIN	DESCRIPTION
1	GND	2	XMTDTA 7
3	RCVDTA 7	4	DTR7
5	RING 7	6	FORCED BSY 7
7	RTS 7	8	N/C
9	GND	10	CARRIER 7
11	GND	12	XMTDTA 6
13	RCVDDTA 6	14	DTR6
15	RING 6	16	FORCED BSY 6
17	RTS 6	18	N/C
19	GND	20	CARRIER 6
21	CARRIER 5	22	GND
23	N/C	24	RTS5
25	FORCED BSY 5	26	RING 5
27	DTR 5	28	RCVDDTA 5
29	XMTDTA 5	30	GND
31	CARRIER 4	32	GND
33	N/C	34	RTS 4
35	FORCED BSY 4	36	RING 4
37	DTR 4	38	RCVDDTA 4
39	XMTDTA 4	40	GND

TABLE 2-2: J2 PIN ASSIGNMENTS

Each 40-conductor cable is terminated with four 25-pin connectors for peripheral terminals. The pin assignments for these connector are shown in Table 2-3 below.

PIN	SIGNAL	DESCRIPTION
1	GND	*Shield Ground
2	XMTDATA	Transmit Data
3	RCVDATA	Receive Data
4	RTS	Request to Send
7	GND	*Signal Ground
8	CARRIER	Carrier
20	DTR	Data Terminal Ready
22	RING	Ring
25	FORCED BSY	Force Busy

*Shield & Signal Ground are connected.

TABLE 2-3: PERIPHERAL CONNECTOR PIN ASSIGNMENTS

2.8 DIAGNOSTIC TESTING

Use the following procedure for diagnostic testing.

1. Install jumper at location "E" for proper diagnostic timing compatibility. **ASSURE THAT CHASSIS LINE CLOCK (LTC) SWITCH IS OFF. ASSURE THAT CONSOLE TERMINAL IS SET TO JUMP SCROLL MODE.**
2. Run DEC MAINDEC-11 ZDZAE0 diagnostics.
3. After Status Table and "Running" appears, halt program and open location 176. Deposit a "1".
4. Put Halt switch in Enable position and type "200G".
5. Input desired starting address, vector, and BR level.

NOTE

The board is factory set to BR level
4. Enter BR level 4 in program.

6. Select EIA Module.
7. Select Internal diagnostics.
8. Input number of SCD-DZV11 modules in backplane.
9. Run at least TWO passes error free. If not error free, check that "E" jumper is installed (step 1) and BR level is correct (step 5).
10. For additional testing, install optional staggered loop back connectors at J1 and J2 and repeat test, selecting staggered test at step 7.
11. For cable testing, install cables at J1 and J2. Halt program, open 176 and deposit a "2".
12. Put Halt switch in Enable position and type "210G".
13. Select "C" for cable test.
14. Install optional cable loop back adapter on channel to be tested. Select desired baud rate and channel. Run several passes error free. Hit any key to select another channel.
15. Repeat test on all channels.

2.9 OPTIONAL REAR RACKMOUNT CONNECTOR PANEL

An optional connector panel can be mounted at the rear of a standard 19" RETMA rack. The connector panel accommodates 25-pin connectors and provides convenient cabling to peripheral terminals. The panel accepts connectors from two 8-channel devices.

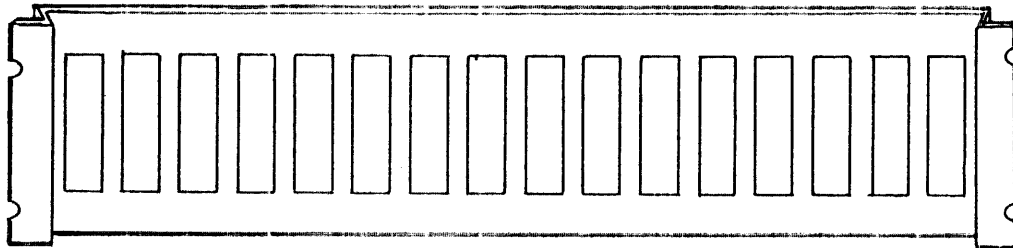


FIGURE 2-3: OPTIONAL REAR CONNECTOR PANEL

Section 3 - Programming

3.1 INTRODUCTION

This section provides programming information for the SCD-DZV11. A description of each register, including bit assignments and program limits, is provided for programming and maintenance.

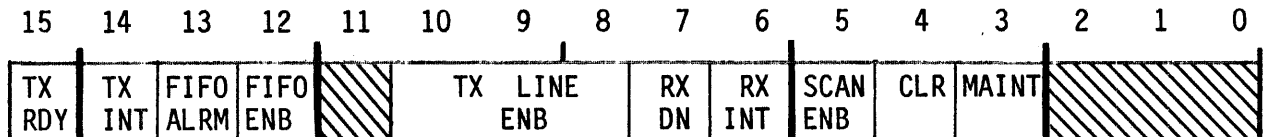
The SCD-DZV11 consists of four discrete device registers:

R0	Control Status Register	CSR	Read/Write
R2	Receiver Buffer Line Parameter	RBUF LPR	Read Only Write Only
R4	Transmit Control Register	TCR	Read/Write
R6	Transmit Data Register Modem Status Register	TDR MSR	Write Only Read Only

The four register are expanded to six registers by assigning a Read Only or Write Only status to R2 and R6. The LSI-11 processor instructions that perform a Read-Modify-Write (DATIP) bus cycle cannot be utilized with R2 and R6. R2 permits only word instructions, but byte or word instructions may be used with R6. R0 and R4 have no programming restraints. For all registers, Read Only bits are not affected by a Write operation, and a Read operation results in binary 0 for Write Only or Not Used bits.

3.2 CONTROL AND STATUS REGISTER (CSR) 76XXX0

The control and Status register has no programming restraints. Write Only and Not Used bits are read as zero. Read Only bits are not affected by Write attempts.



TX RDY TRANSMITTER READY. Bit 15 is set when a line with the LINE ENB bit set also has an empty transmit buffer. Cleared by CLR, BUS INIT, or by loading the transmit buffer. Read Only.

TX INT TRANSMIT INTERRUPT ENABLE. When set, bit 14 permits an interrupt if Transmitter Ready is set. Read/Write.

FIFO ALARM FIFO ALARM. Bit 13 is set after 16 characters enter FIFO. An interrupt is generated if bit 6 is set. FIFO must be emptied when FIFO flag occurs since the flag will not set again until another 16 characters enter FIFO. Cleared by CLR, BUS INIT, and reading RBUF. Read Only.

FIFO ENB FIFO ALARM ENABLE. Bit 12 allows bit 13 to cause an interrupt after 16 characters enter the FIFO, providing bit 6 is set. If bit 6 is not set, FIFO Alarm can be used as a flag. This bit can prevent Receiver Done from causing interrupts. Cleared by CLR and BUS INIT.

TX LINE ENB TRANSMIT LINE ENABLE. When bit 15 is set, these bits indicate which line is ready to transmit a character.

--BIT--

10	9	8	LINE
0	0	0	0
0	0	1	1
0	1	0	2
0	1	1	3
1	0	0	4
1	0	1	5
1	1	0	6
1	1	1	7

When the character is loaded into the transmit buffer, bit 15 clears. If a second line is ready, bit 15 sets again. After a CLR or BUS INIT, these bits return to line 0. These bits are relevant only if bit 15 is true. Read Only.

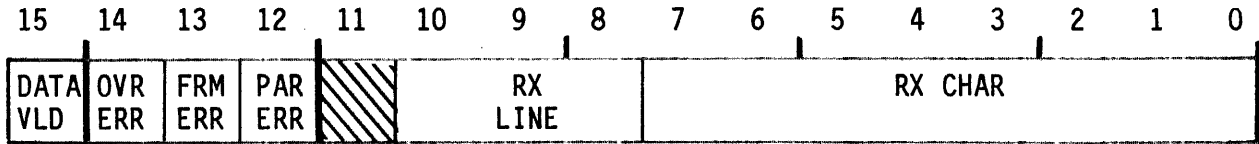
- RX DN RECEIVER DONE. If bit 6 is set and bit 12 is clear, this bit generates RCV INT, and clears when the receiver buffer is read. Resets when another word reaches the FIFO output. This bit can be used as a flag to indicate the FIFO contains a character if bit 6 is clear.
- RX INT RECEIVER INTERRUPT ENABLE. Bit 6 enables receiver interrupts. Cleared by CLR and BUS INIT. Read/Write.
- SCAN ENB MASTER SCAN ENABLE. Bit 5 activates the scanner to enable the receiver transmitter and FIFO. Cleared by CLR and BUS INIT. Read/Write.
- CLR CLEAR. Bit 4 generates a reset which clears the receiver FIFO, all UARTs and the CSR. The CSR and line parameters must be reset after CLR is issued. Bits 0 through 14 of RBUF and modem control registers are not affected. CLR = 1 indicates a Clear operation is in progress. Read/Write.
- MAINT MAINTENANCE. When bit 3 is set, serial output data from the transmitter is looped back as input data to the receiver, which permits running diagnostics without disturbing any connectors. Cleared by BUS INIT and CLR. Read/Write.

3.3 RECEIVE BUFFER REGISTER (RBUF) 76XXX2

The Receive Buffer register is the Read Only portion of register R2. Programming constraints are:

Byte, TST, or BIT instructions cannot be used.

CSR bit 5 (Master Scan Enable) must be set or else bit 14-0 of RBUF are invalid regardless of the status of Data Valid (bit 15) and the FIFO held empty. Each reading advances the FIFO and presents the next character to the program. Although Bits 14-9 do not go to zero, they become invalid and the FIFO is emptied after a CLR or BUS INIT. Data Valid (bit 15) goes to zero.



DATA VLD DATA VALID. Bit 15 indicates that the character read from FIFO (RBUF) is valid. The RBUF is read until the Data Valid = 0, indicating an invalid character and an empty FIFO. Cleared by CLR and BUS INIT.

OVR ERR OVERRUN ERROR. Bit 14 indicates a Receive Buffer overflow. When overflow occurs a received character is replaced by another received character before storage in the FIFO. One is valid.

FRM ERR FRAMING ERROR. Bit 13 indicates improper framing (Stop bit is not a Mark) of received character. Also used for break detection.

PAR ERR PARITY ERROR. Bit 12 does not appear in the RBUF and is generated by the SCD-DZV11. It indicates that the received bit had a parity error when set.

RX LINE RECEIVE LINE NUMBER. Bits 10-08 indicate the line number on which the character is received.

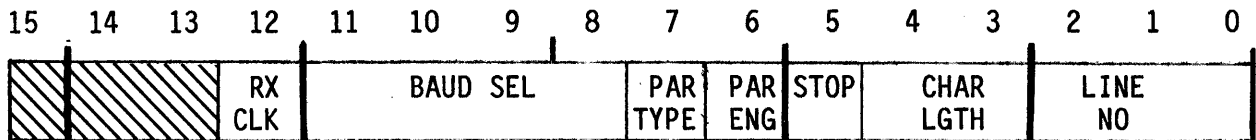
--BIT--

10	9	8	LINE
0	0	0	0
0	0	1	1
0	1	0	2
0	1	1	3
1	0	0	4
1	0	1	5
1	1	0	6
1	1	1	7

RX CHAR RECEIVED CHARACTER. Bits 07-00 contain the received character. Higher order bits are forced to zero when the selected code level is less than 8 bits wide.

3.4 LINE PARAMETER REGISTER (LPR) 76XXX2

The line parameter register is the Write Only part of register R2. After a CLR (bit 4 of CSR) or BUS INIT operation, line parameters for each line must be reloaded. Programming restraints do not allow byte operations, BIS or BIC instructions and the Read Only status of the line parameter register.



RX CLK RECEIVER ON. Bit 12 activates the receiver clock. It must be set when loading paramters. CLR or BUS INIT turns the receiver clock off.

BAUD SEL BAUD SELECT. These bits select the baud rates as defined by the TRAN and RCV speed for the line determined by bits 00-02. The baud rate decode for bits 11-08 are:

BAUD RATE	-----BITS-----			
	11	10	09	08
50	0	0	0	0
75	0	0	0	1
110	0	0	1	0
134.5	0	0	1	1
150	0	1	0	0
300	0	1	0	1
600	0	1	1	0
1200	0	1	1	1
1800	1	0	0	0
* 200	1	0	0	1
2400	1	0	1	0
3600	1	0	1	1
4800	1	1	0	0
7200	1	1	0	1
9600	1	1	1	0
19200	1	1	1	1

*DEC baud rate is 2000 for 1001

NOTE

Transmit and Receive speeds must be the same

PAR TYPE PARITY TYPE. Bit 7 determines even or odd parity (0 = even, 1 = odd). Bit 6 must be set for this bit to be effective.

PAR ENB PARITY ENABLE. Bit 6 enables the parity option. If no parity is desired, this bit should not be set (i.e., 0 = no parity, 1 = parity).

STOP STOP CODE. Bit 5 sets the Stop Code length (0 = 1 unit stop, 1 = 2 unit stop or 1.5 unit stop if a 5-level code is used).

CHAR LGTH CHARACTER LENGTH. These bits define the character length for the selected line:

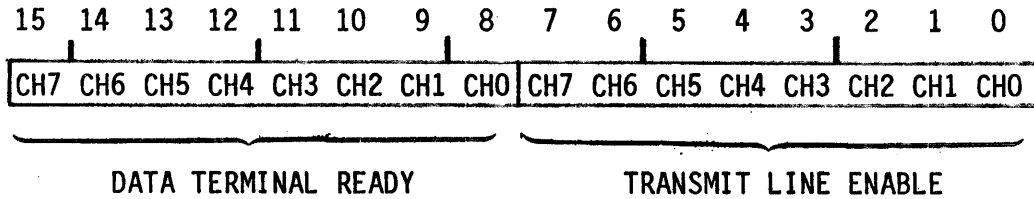
-BIT-		<u>CHARACTER LENGTH</u>
3	4	
0	0	5 bits
0	1	6 bits
1	0	7 bits
1	1	8 bits

LINE NO LINE NUMBER. These bits determine the line for parameter (bits 3-12) loading.

--BIT--			
2	1	0	LINE
0	0	0	0
0	0	1	1
0	1	0	2
0	1	1	3
1	0	0	4
1	0	1	5
1	1	0	6
1	1	1	7

3.5 TRANSMIT CONTROL REGISTER (TCR) 76XXX4

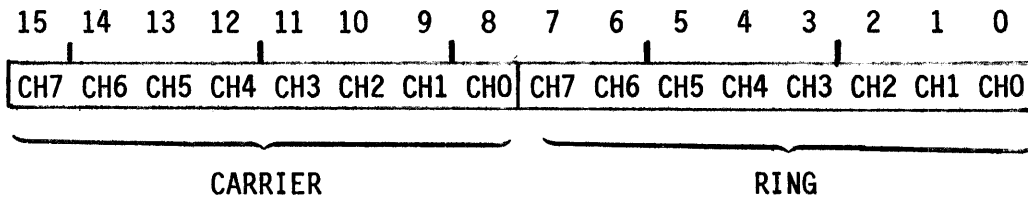
The Transmit Control register is a Read/Write register. The low byte contains the transmit line bits, which must be set to initiate transmission on each line. The high byte contains DTR for each line and is cleared by BUS INIT only, not CLR.



ON = LOGICAL 1

3.6 MODEM STATUS REGISTER (MSR) 76XXX6

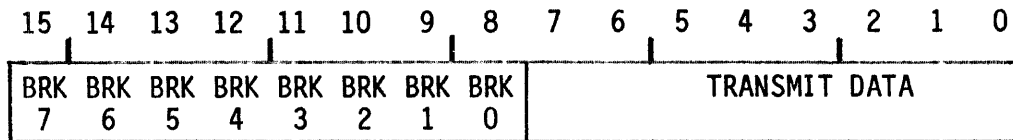
The Modem Status register is the Read Only part of register R6. The low byte of the register monitors the state of each line's ring indicator lead (R1). The high byte monitors the state of each line's carrier lead (C0). Programming considerations should include the register format below, the Read Only status of the register, and the fact that CLR and BUS INIT have no effect on the register.



ON = LOGICAL 1

3.7 TRANSMIT DATA REGISTER (TDR) 76XXX6

The Transmit Data register is the Write Only part of register R6. The low byte is the Transmit Buffer (TBUF) that stores the character that is to be transmitted. The high byte is the Break register with each line controlled by an individual bit (7-0). When a break is set, the associated line transmits zeros immediately and continuously. Programming considerations should include the Write Only status of the register, the fact that BIS and BIC instructions cannot be used, and the realization that this register is cleared by CLR and BUS INIT. The character loaded into the TBUF must be right-justified for character lengths less than 8 bits since the hardware induces the most significant bits to zero.



PIN	SIGNAL	LSI-11/2	LSI-11/23	PIN	SIGNAL	LSI-11/2	LSI-11/23
AA1	BIRQ5L			AA2	+5V		
AB1	BIRQ6L			AB2	-12V		
AC1	BDAL16L			AC2	GND		
AD1	BDAL17L			AD2	+12V		
AE1	*SS1	STOP L	SINGLE STEP	AE2	BDOUTL		
AF1	*SRUNL	SRUNL	SRUNL	AF2	BRPLYL		
AH1	*SRUNL	SRUNL	SRUNL	AH2	BDINL		
AJ1	GND			AJ2	BSYNCL		
AK1	*MSPAREA	MTOEL	NOT USED	AK2	BWTBTL		
AL1	*MSPAREB	GND	NOT USED	AL2	BIRQ4L		
AM1	GND			AM2	*BIAK1L	NOT USED	MMUSTRH
AN1	BDMRL			AN2	*BIAKOL		
AP1	BHALTL			AP2	BBS7L		
AR1	BREFL	NOT USED	NOT USED	AR2	*BDMG1L	NOT USED	UBMAAPL
AS1	+12VB			AS2	*BDMGOL		
AT1	GND			AT2	BINITL		
AU1	PSPARE1			AU2	BDAL0L		
AV1	+5VB			AV2	BDAL1L		
BA1	BDCOKH			BA2	+5V		
BB1	BPOKH			BB2	-12V		
BC1	*SSPARE4	SCLK3H	MMUDAL18H	BC2	GND		
BD1	*SSPARE5	SWMIB18H	MMUDAL19H	BD2	+12V		
BE1	*SSPARE6	SWMIB19H	MMUDAL20H	BE2	BDAL2L		
BF1	*SSPARE6	SWMIB20H	MMUDAL21H	BF2	BDAL3L		
BH1	*SSPARE8	SWMIB21H	CLKDISL	BH2	BDAL4L		
BJ1	GND			BJ2	BDAL5L		
BK1	*MSPAREB	NOT USED	NOT USED	BK2	BDAL6L		
BL1	*MSPAREB	NOT USED	NOT USED	BL2	BDAL7L		
BM1	BND			BM2	BDAL8L		
BN1	BSACKL			BN2	BDAL9L		
BP1	BIRQ7L			BP2	BDAL10L		
BR1	BEVNTL			BR2	BDAL11L		
BS1	PSPARE4	PSPARE4	+12VB	BS2	BDAL12L		
BT1	GND			BT2	BDAL13L		
BU1	PSPARE2			BU2	BDAL14L		
BV1	+5V			BV2	BDAL15L		

*NOT BUSSED

Q BUS PIN ASSIGNMENTS

SCD-DZV11 INTERRUPT VECTOR SW2 SWITCH SETTINGS

NOTE

SW2 POSITION 1 MUST ALWAYS BE ON.

INTERRUPT VECTOR	---SW2 SWITCH POSITIONS---						INTERRUPT VECTOR	---SW2 SWITCH POSITIONS---					
	7	6	5	4	3	2		7	6	5	4	3	2
	-----VECTOR DATA BITS-----			-----VECTOR DATA BITS-----				-----VECTOR DATA BITS-----			-----VECTOR DATA BITS-----		
	V08	V07	V06	V05	V04	V03		V08	V07	V06	V05	V04	V03
000	ON	ON	ON	ON	ON	ON	400	OFF	ON	ON	ON	ON	ON
010	ON	ON	ON	ON	ON	OFF	410	OFF	ON	ON	ON	ON	OFF
020	ON	ON	ON	ON	OFF	ON	420	OFF	ON	ON	ON	OFF	ON
030	ON	ON	ON	ON	OFF	OFF	430	OFF	ON	ON	ON	OFF	OFF
040	ON	ON	ON	OFF	ON	ON	440	OFF	ON	ON	OFF	ON	ON
050	ON	ON	ON	OFF	ON	OFF	450	OFF	ON	ON	OFF	ON	OFF
060	ON	ON	ON	OFF	OFF	ON	460	OFF	ON	ON	OFF	OFF	ON
070	ON	ON	ON	OFF	OFF	OFF	470	OFF	ON	ON	OFF	OFF	OFF
100	ON	ON	OFF	ON	ON	ON	500	OFF	ON	OFF	ON	ON	ON
110	ON	ON	OFF	ON	ON	OFF	510	OFF	ON	OFF	ON	ON	OFF
120	ON	ON	OFF	ON	OFF	ON	520	OFF	ON	OFF	ON	OFF	ON
130	ON	ON	OFF	ON	OFF	OFF	530	OFF	ON	OFF	ON	OFF	OFF
140	ON	ON	OFF	OFF	ON	ON	540	OFF	ON	OFF	OFF	ON	ON
150	ON	ON	OFF	OFF	ON	OFF	550	OFF	ON	OFF	OFF	ON	OFF
160	ON	ON	OFF	OFF	OFF	ON	560	OFF	ON	OFF	OFF	OFF	ON
170	ON	ON	OFF	OFF	OFF	OFF	570	OFF	ON	OFF	OFF	OFF	OFF
200	ON	OFF	ON	ON	ON	ON	600	OFF	OFF	ON	ON	ON	ON
210	ON	OFF	ON	ON	ON	OFF	610	OFF	OFF	ON	ON	ON	OFF
220	ON	OFF	ON	ON	OFF	ON	620	OFF	OFF	ON	ON	OFF	ON
230	ON	OFF	ON	ON	OFF	OFF	630	OFF	OFF	ON	ON	OFF	OFF
240	ON	OFF	ON	OFF	ON	ON	640	OFF	OFF	ON	OFF	ON	ON
250	ON	OFF	ON	OFF	ON	OFF	650	OFF	OFF	ON	OFF	ON	OFF
260	ON	OFF	ON	OFF	OFF	ON	660	OFF	OFF	ON	OFF	OFF	ON
270	ON	OFF	ON	OFF	OFF	OFF	670	OFF	OFF	ON	OFF	OFF	OFF
300	ON	OFF	OFF	ON	ON	ON	700	OFF	OFF	OFF	ON	ON	ON
210	ON	OFF	OFF	ON	ON	OFF	710	OFF	OFF	OFF	ON	ON	OFF
220	ON	OFF	OFF	ON	OFF	ON	720	OFF	OFF	OFF	ON	OFF	ON
230	ON	OFF	OFF	ON	OFF	OFF	730	OFF	OFF	OFF	ON	OFF	OFF
240	ON	OFF	OFF	OFF	ON	ON	740	OFF	OFF	OFF	OFF	ON	ON
250	ON	OFF	OFF	OFF	ON	OFF	750	OFF	OFF	OFF	OFF	ON	OFF
260	ON	OFF	OFF	OFF	OFF	ON	760	OFF	OFF	OFF	OFF	OFF	ON
270	ON	OFF	OFF	OFF	OFF	OFF	770	OFF	OFF	OFF	OFF	OFF	OFF

SCD-DZV11 ADDRESS ASSIGNMENTS VIA SW1 SWITCH SETTINGS

NOTES

SW1 SWITCH POSITIONS ARE NOT IN NUMERICAL ORDER.
REFER TO DEC'S MICROPROCESSOR INTERFACE HANDBOOK FOR
RECOMMENDED ADDRESS ASSIGNMENTS

ADDRESS	-----SW1 SWITCH POSITIONS-----									
	3	5	8	9	7	4	2	1	10	6
	-----ADDRESS BITS-----									
	A12	A11	A10	A09	A08	A07	A06	A05	A04	A03
76000	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
760010	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON
760020	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
760030	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON
760040	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF
760050	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF	ON
760060	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	OFF
760070	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON
760100	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF
760110	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF	ON
760120	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF	ON	OFF
760130	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF	ON	ON
760140	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	OFF	OFF
760150	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	OFF	ON
760160	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	OFF
760170	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON
760200	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF
760210	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON
760220	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF	ON	OFF
760230	OFF	OFF	OFF	OFF	OFF	ON	OFF	ON	ON	ON
760240	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF
760250	OFF	OFF	OFF	OFF	OFF	ON	OFF	ON	ON	ON
760260	OFF	OFF	OFF	OFF	OFF	ON	OFF	ON	ON	OFF
760270	OFF	OFF	OFF	OFF	OFF	ON	OFF	ON	ON	ON
760300	OFF	OFF	OFF	OFF	OFF	ON	ON	OFF	OFF	OFF
760310	OFF	OFF	OFF	OFF	OFF	ON	ON	OFF	OFF	ON
760320	OFF	OFF	OFF	OFF	OFF	ON	ON	OFF	ON	OFF
760330	OFF	OFF	OFF	OFF	OFF	ON	ON	OFF	ON	ON
760340	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	OFF	OFF
760350	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	OFF	ON
760360	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	OFF
760370	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON
760400	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF
760410	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF	ON
760420	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
760430	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON	ON
760440	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
760450	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON	ON
760460	OFF	OFF	OFF	OFF	ON	OFF	OFF	ON	ON	OFF
760470	OFF	OFF	OFF	OFF	ON	OFF	OFF	ON	ON	ON

ADDRESS	-----SW1 SWITCH POSITIONS-----									
	3	5	8	9	7	4	2	1	10	6
	-----ADDRESS BITS-----									
	A12	A11	A10	A09	A08	A07	A06	A05	A04	A03
760500	OFF	OFF	OFF	OFF	ON	OFF	ON	OFF	OFF	OFF
760510	OFF	OFF	OFF	OFF	ON	OFF	ON	OFF	OFF	ON
760520	OFF	OFF	OFF	OFF	ON	OFF	ON	OFF	ON	OFF
760530	OFF	OFF	OFF	OFF	ON	OFF	ON	OFF	ON	ON
760540	OFF	OFF	OFF	OFF	ON	OFF	ON	OFF	ON	OFF
760550	OFF	OFF	OFF	OFF	ON	OFF	ON	OFF	ON	ON
760560	OFF	OFF	OFF	OFF	ON	OFF	ON	OFF	ON	OFF
760570	OFF	OFF	OFF	OFF	ON	OFF	ON	OFF	ON	ON
760600	OFF	OFF	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF
760610	OFF	OFF	OFF	OFF	ON	ON	OFF	OFF	OFF	ON
760620	OFF	OFF	OFF	OFF	ON	ON	OFF	OFF	ON	OFF
760630	OFF	OFF	OFF	OFF	ON	ON	OFF	OFF	ON	ON
760640	OFF	OFF	OFF	OFF	ON	ON	OFF	ON	OFF	OFF
760650	OFF	OFF	OFF	OFF	ON	ON	OFF	ON	OFF	ON
760660	OFF	OFF	OFF	OFF	ON	ON	OFF	ON	ON	OFF
760670	OFF	OFF	OFF	OFF	ON	ON	OFF	ON	ON	ON
760700	OFF	OFF	OFF	OFF	ON	ON	ON	OFF	OFF	OFF
760710	OFF	OFF	OFF	OFF	ON	ON	ON	OFF	OFF	ON
760720	OFF	OFF	OFF	OFF	ON	ON	ON	OFF	ON	OFF
760730	OFF	OFF	OFF	OFF	ON	ON	ON	OFF	ON	ON
760740	OFF	OFF	OFF	OFF	ON	ON	ON	ON	OFF	OFF
760750	OFF	OFF	OFF	OFF	ON	ON	ON	ON	OFF	ON
760760	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	OFF
760770	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON
761000	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF
761010	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	ON
761020	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF	ON	OFF
761030	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF	ON	ON
761040	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
761050	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF	ON
761060	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON	ON	OFF
761070	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON	ON	ON
761100	OFF	OFF	OFF	ON	OFF	OFF	ON	OFF	OFF	OFF
761110	OFF	OFF	OFF	ON	OFF	OFF	ON	OFF	OFF	ON
761120	OFF	OFF	OFF	ON	OFF	OFF	ON	OFF	ON	OFF
761130	OFF	OFF	OFF	ON	OFF	OFF	ON	OFF	ON	ON
761140	OFF	OFF	OFF	ON	OFF	OFF	ON	ON	OFF	OFF
761150	OFF	OFF	OFF	ON	OFF	OFF	ON	ON	OFF	ON
761160	OFF	OFF	OFF	ON	OFF	OFF	ON	ON	ON	OFF
761170	OFF	OFF	OFF	ON	OFF	OFF	ON	ON	ON	ON
761200	OFF	OFF	OFF	ON	OFF	ON	OFF	OFF	OFF	OFF
761210	OFF	OFF	OFF	ON	OFF	ON	OFF	ON	OFF	ON
761220	OFF	OFF	OFF	ON	OFF	ON	OFF	ON	OFF	OFF
761230	OFF	OFF	OFF	ON	OFF	ON	OFF	ON	ON	ON
761240	OFF	OFF	OFF	ON	OFF	ON	OFF	ON	OFF	OFF
761250	OFF	OFF	OFF	ON	OFF	ON	OFF	ON	OFF	ON
761260	OFF	OFF	OFF	ON	OFF	ON	OFF	ON	ON	OFF
761270	OFF	OFF	OFF	ON	OFF	ON	OFF	ON	ON	ON

ADDRESS	-----SW1 SWITCH POSITIONS-----									
	3	5	8	9	7	4	2	1	10	6
	-----ADDRESS BITS-----									
A12	A11	A10	A09	A08	A07	A06	A05	A04	A03	
761300	OFF	OFF	OFF	ON	OFF	ON	ON	OFF	OFF	OFF
761310	OFF	OFF	OFF	ON	OFF	ON	ON	OFF	OFF	ON
761320	OFF	OFF	OFF	ON	OFF	ON	ON	OFF	ON	OFF
761330	OFF	OFF	OFF	ON	OFF	ON	ON	OFF	ON	ON
761340	OFF	OFF	OFF	ON	OFF	ON	ON	ON	OFF	OFF
761350	OFF	OFF	OFF	ON	OFF	ON	ON	ON	OFF	ON
761360	OFF	OFF	OFF	ON	OFF	ON	ON	ON	ON	OFF
761370	OFF	OFF	OFF	ON	OFF	ON	ON	ON	ON	ON
761400	OFF	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF	OFF
761410	OFF	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF	ON
761420	OFF	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF	ON
761430	OFF	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF	ON
761440	OFF	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF	ON
761450	OFF	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF	ON
761460	OFF	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF	ON
761470	OFF	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF	ON
761500	OFF	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF	OFF
761510	OFF	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF	ON
761520	OFF	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF	ON
761530	OFF	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF	ON
761540	OFF	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF	ON
761550	OFF	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF	ON
761560	OFF	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF	ON
761570	OFF	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF	ON
761600	OFF	OFF	OFF	ON	ON	ON	OFF	OFF	OFF	OFF
761610	OFF	OFF	OFF	ON	ON	ON	OFF	OFF	OFF	ON
761620	OFF	OFF	OFF	ON	ON	ON	OFF	ON	OFF	OFF
761630	OFF	OFF	OFF	ON	ON	ON	OFF	ON	ON	ON
761640	OFF	OFF	OFF	ON	ON	ON	ON	OFF	OFF	OFF
761650	OFF	OFF	OFF	ON	ON	ON	ON	OFF	ON	ON
761660	OFF	OFF	OFF	ON	ON	ON	ON	ON	OFF	OFF
761670	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	ON
761700	OFF	OFF	OFF	ON	ON	ON	ON	OFF	OFF	OFF
761710	OFF	OFF	OFF	ON	ON	ON	ON	OFF	OFF	ON
761720	OFF	OFF	OFF	ON	ON	ON	ON	OFF	ON	OFF
761730	OFF	OFF	OFF	ON	ON	ON	ON	OFF	ON	ON
761740	OFF	OFF	OFF	ON	ON	ON	ON	ON	OFF	OFF
761750	OFF	OFF	OFF	ON	ON	ON	ON	ON	OFF	ON
761760	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	OFF
761770	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	ON
762000	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
762010	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	ON
762020	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	ON	OFF
762030	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	ON	ON
762040	OFF	OFF	ON	OFF	OFF	OFF	OFF	ON	OFF	OFF
762050	OFF	OFF	ON	OFF	OFF	OFF	OFF	ON	OFF	ON
762060	OFF	OFF	ON	OFF	OFF	OFF	OFF	ON	ON	OFF
762070	OFF	OFF	ON	OFF	OFF	OFF	OFF	ON	ON	ON

ADDRESS	-----SW1 SWITCH POSITIONS-----									
	3	5	8	9	7	4	2	1	10	6
	-----ADDRESS BITS-----									
A12	A11	A10	A09	A08	A07	A06	A05	A04	A03	
762100	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF
762110	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF	ON
762120	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF	ON	OFF
762130	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF	ON	ON
762140	OFF	OFF	ON	OFF	OFF	OFF	ON	ON	OFF	OFF
762150	OFF	OFF	ON	OFF	OFF	OFF	ON	ON	OFF	ON
762160	OFF	OFF	ON	OFF	OFF	OFF	ON	ON	ON	OFF
762170	OFF	OFF	ON	OFF	OFF	OFF	ON	ON	ON	ON
762200	OFF	OFF	ON	OFF	OFF	ON	OFF	OFF	OFF	OFF
762210	OFF	OFF	ON	OFF	OFF	ON	OFF	OFF	OFF	ON
762220	OFF	OFF	ON	OFF	OFF	ON	OFF	OFF	ON	OFF
762230	OFF	OFF	ON	OFF	OFF	ON	OFF	OFF	ON	ON
762240	OFF	OFF	ON	OFF	OFF	ON	OFF	OFF	ON	OFF
762250	OFF	OFF	ON	OFF	OFF	ON	OFF	OFF	ON	ON
762260	OFF	OFF	ON	OFF	OFF	ON	OFF	OFF	ON	OFF
762270	OFF	OFF	ON	OFF	OFF	ON	OFF	OFF	ON	ON
762300	OFF	OFF	ON	OFF	OFF	ON	ON	OFF	OFF	OFF
762310	OFF	OFF	ON	OFF	OFF	ON	ON	OFF	OFF	ON
762320	OFF	OFF	ON	OFF	OFF	ON	ON	OFF	ON	OFF
762330	OFF	OFF	ON	OFF	OFF	ON	ON	OFF	ON	ON
762340	OFF	OFF	ON	OFF	OFF	ON	ON	ON	OFF	OFF
762350	OFF	OFF	ON	OFF	OFF	ON	ON	ON	OFF	ON
762360	OFF	OFF	ON	OFF	OFF	ON	ON	ON	ON	OFF
762370	OFF	OFF	ON	OFF	OFF	ON	ON	ON	ON	ON
762400	OFF	OFF	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF
762410	OFF	OFF	ON	OFF	ON	OFF	OFF	OFF	OFF	ON
762420	OFF	OFF	ON	OFF	ON	OFF	OFF	OFF	OFF	ON
762430	OFF	OFF	ON	OFF	ON	OFF	OFF	OFF	OFF	ON
762440	OFF	OFF	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF
762450	OFF	OFF	ON	OFF	ON	OFF	OFF	OFF	OFF	ON
762460	OFF	OFF	ON	OFF	ON	OFF	OFF	OFF	OFF	ON
762470	OFF	OFF	ON	OFF	ON	OFF	OFF	OFF	OFF	ON
762500	OFF	OFF	ON	OFF	ON	OFF	ON	OFF	OFF	OFF
762510	OFF	OFF	ON	OFF	ON	OFF	ON	OFF	OFF	ON
762520	OFF	OFF	ON	OFF	ON	OFF	ON	OFF	OFF	OFF
762530	OFF	OFF	ON	OFF	ON	OFF	ON	OFF	OFF	ON
762540	OFF	OFF	ON	OFF	ON	OFF	ON	OFF	OFF	OFF
762550	OFF	OFF	ON	OFF	ON	OFF	ON	OFF	OFF	ON
762560	OFF	OFF	ON	OFF	ON	OFF	ON	OFF	ON	ON
762570	OFF	OFF	ON	OFF	ON	OFF	ON	OFF	ON	ON
762600	OFF	OFF	ON	OFF	ON	ON	OFF	OFF	OFF	OFF
762610	OFF	OFF	ON	OFF	ON	ON	OFF	OFF	OFF	ON
762620	OFF	OFF	ON	OFF	ON	ON	OFF	OFF	ON	OFF
762630	OFF	OFF	ON	OFF	ON	ON	OFF	OFF	ON	ON
762640	OFF	OFF	ON	OFF	ON	ON	OFF	ON	OFF	OFF
762650	OFF	OFF	ON	OFF	ON	ON	OFF	ON	OFF	ON
762660	OFF	OFF	ON	OFF	ON	ON	OFF	ON	ON	OFF
762670	OFF	OFF	ON	OFF	ON	ON	OFF	ON	ON	ON

ADDRESS	SW1 SWITCH POSITIONS										
	3 5 8 9				7 4 2			1 10 6			
	ADDRESS BITS										
A12	A11	A10	A09	A08	A07	A06	A05	A04	A03		
762700	OFF	OFF	ON	OFF	ON	ON	ON	OFF	OFF	OFF	
762710	OFF	OFF	ON	OFF	ON	ON	ON	OFF	OFF	ON	
762720	OFF	OFF	ON	OFF	ON	ON	ON	OFF	ON	OFF	
762730	OFF	OFF	ON	OFF	ON	ON	ON	OFF	ON	ON	
762740	OFF	OFF	ON	OFF	ON	ON	ON	ON	OFF	OFF	
762750	OFF	OFF	ON	OFF	ON	ON	ON	ON	OFF	ON	
762760	OFF	OFF	ON	OFF	ON	ON	ON	ON	ON	OFF	
762770	OFF	OFF	ON	OFF	ON	ON	ON	ON	ON	ON	
763000	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	
763010	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF	OFF	ON	
763020	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF	ON	OFF	
763030	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF	ON	ON	
763040	OFF	OFF	ON	ON	OFF	OFF	OFF	ON	OFF	OFF	
763050	OFF	OFF	ON	ON	OFF	OFF	OFF	ON	OFF	ON	
763060	OFF	OFF	ON	ON	OFF	OFF	OFF	ON	ON	OFF	
763070	OFF	OFF	ON	ON	OFF	OFF	OFF	ON	ON	ON	
763100	OFF	OFF	ON	ON	OFF	OFF	ON	OFF	OFF	OFF	
763110	OFF	OFF	ON	ON	OFF	OFF	ON	OFF	OFF	ON	
763120	OFF	OFF	ON	ON	OFF	OFF	ON	OFF	ON	OFF	
763130	OFF	OFF	ON	ON	OFF	OFF	ON	OFF	ON	ON	
763140	OFF	OFF	ON	ON	OFF	OFF	ON	ON	OFF	OFF	
763150	OFF	OFF	ON	ON	OFF	OFF	ON	ON	OFF	ON	
763160	OFF	OFF	ON	ON	OFF	OFF	ON	ON	ON	OFF	
763170	OFF	OFF	ON	ON	OFF	OFF	ON	ON	ON	ON	
763200	OFF	OFF	ON	ON	OFF	ON	OFF	OFF	OFF	OFF	
763210	OFF	OFF	ON	ON	OFF	ON	OFF	OFF	OFF	ON	
763220	OFF	OFF	ON	ON	OFF	ON	OFF	OFF	ON	OFF	
763230	OFF	OFF	ON	ON	OFF	ON	OFF	OFF	ON	ON	
763240	OFF	OFF	ON	ON	OFF	ON	OFF	ON	OFF	OFF	
763250	OFF	OFF	ON	ON	OFF	ON	OFF	ON	OFF	ON	
763260	OFF	OFF	ON	ON	OFF	ON	OFF	ON	ON	OFF	
763270	OFF	OFF	ON	ON	OFF	ON	OFF	ON	ON	ON	
763300	OFF	OFF	ON	ON	OFF	ON	ON	OFF	OFF	OFF	
763310	OFF	OFF	ON	ON	OFF	ON	ON	OFF	OFF	ON	
763320	OFF	OFF	ON	ON	OFF	ON	ON	OFF	ON	OFF	
763330	OFF	OFF	ON	ON	OFF	ON	ON	OFF	ON	ON	
763340	OFF	OFF	ON	ON	OFF	ON	ON	ON	OFF	OFF	
763350	OFF	OFF	ON	ON	OFF	ON	ON	ON	OFF	ON	
763360	OFF	OFF	ON	ON	OFF	ON	ON	ON	ON	OFF	
763370	OFF	OFF	ON	ON	OFF	ON	ON	ON	ON	ON	
763400	OFF	OFF	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	
763410	OFF	OFF	ON	ON	ON	OFF	OFF	OFF	OFF	ON	
763420	OFF	OFF	ON	ON	ON	OFF	OFF	OFF	OFF	ON	
763430	OFF	OFF	ON	ON	ON	OFF	OFF	OFF	OFF	ON	
763440	OFF	OFF	ON	ON	ON	OFF	OFF	OFF	ON	OFF	
763450	OFF	OFF	ON	ON	ON	OFF	OFF	OFF	ON	OFF	
763460	OFF	OFF	ON	ON	ON	OFF	OFF	OFF	ON	ON	
763470	OFF	OFF	ON	ON	ON	OFF	OFF	OFF	ON	ON	

ADDRESS	SW1 SWITCH POSITIONS										
	3 5 8 9				7 4 2			1 10 6			
	ADDRESS BITS										
A12	A11	A10	A09	A08	A07	A06	A05	A04	A03		
763500	OFF	OFF	ON	ON	ON	OFF	ON	ON	OFF	OFF	OFF
763510	OFF	OFF	ON	ON	ON	ON	OFF	ON	ON	OFF	OFF
763520	OFF	OFF	ON	ON	ON	ON	OFF	ON	ON	OFF	ON
763530	OFF	OFF	ON	ON	ON	ON	OFF	ON	ON	OFF	ON
763540	OFF	OFF	ON	ON	ON	ON	OFF	ON	ON	ON	OFF
763550	OFF	OFF	ON	ON	ON	ON	OFF	ON	ON	ON	OFF
763560	OFF	OFF	ON	ON	ON	ON	OFF	ON	ON	ON	OFF
763570	OFF	OFF	ON	ON	ON	ON	OFF	ON	ON	ON	ON
763600	OFF	OFF	ON	ON	ON	ON	OFF	ON	OFF	OFF	OFF
763610	OFF	OFF	ON	ON	ON	ON	OFF	ON	OFF	OFF	ON
763620	OFF	OFF	ON	ON	ON	ON	OFF	ON	OFF	OFF	ON
763630	OFF	OFF	ON	ON	ON	ON	OFF	ON	OFF	OFF	ON
763640	OFF	OFF	ON	ON	ON	ON	OFF	ON	OFF	ON	OFF
763650	OFF	OFF	ON	ON	ON	ON	OFF	ON	OFF	ON	ON
763660	OFF	OFF	ON	ON	ON	ON	OFF	ON	OFF	ON	ON
763670	OFF	OFF	ON	ON	ON	ON	OFF	ON	OFF	ON	ON
763700	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	OFF	OFF
763710	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	OFF	ON
763720	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	OFF	ON
763730	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	OFF	ON
763740	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	ON	OFF
763750	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	ON	ON
763760	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	ON	OFF
763770	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	ON	ON
764000	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
764010	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON
764020	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON
764030	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON
764040	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
764050	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON
764060	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON
764070	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON
764100	OFF	ON	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF
764110	OFF	ON	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF	ON
764120	OFF	ON	OFF	OFF	OFF	OFF	OFF	ON	OFF	ON	OFF
764130	OFF	ON	OFF	OFF	OFF	OFF	OFF	ON	OFF	ON	ON
764140	OFF	ON	OFF	OFF	OFF	OFF	OFF	ON	OFF	ON	OFF
764150	OFF	ON	OFF	OFF	OFF	OFF	OFF	ON	OFF	ON	ON
764160	OFF	ON	OFF	OFF	OFF	OFF	OFF	ON	OFF	ON	OFF
764170	OFF	ON	OFF	OFF	OFF	OFF	OFF	ON	OFF	ON	ON
764200	OFF	ON	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF
764210	OFF	ON	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON
764220	OFF	ON	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON
764230	OFF	ON	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON
764240	OFF	ON	OFF	OFF	OFF	OFF	ON	OFF	OFF	ON	OFF
764250	OFF	ON	OFF	OFF	OFF	OFF	ON	OFF	OFF	ON	ON
764260	OFF	ON	OFF	OFF	OFF	OFF	ON	OFF	OFF	ON	OFF
764270	OFF	ON	OFF	OFF	OFF	OFF	ON	OFF	OFF	ON	ON

ADDRESS	-----SW1 SWITCH POSITIONS-----									
	3	5	8	9	7	4	2	1	10	6
	-----ADDRESS BITS-----									
	A12	A11	A10	A09	A08	A07	A06	A05	A04	A03
764300	OFF	ON	OFF	OFF	OFF	ON	ON	OFF	OFF	OFF
764310	OFF	ON	OFF	OFF	OFF	ON	ON	OFF	OFF	ON
764320	OFF	ON	OFF	OFF	OFF	ON	ON	OFF	ON	OFF
764330	OFF	ON	OFF	OFF	OFF	ON	ON	OFF	ON	ON
764340	OFF	ON	OFF	OFF	OFF	ON	ON	ON	OFF	OFF
764350	OFF	ON	OFF	OFF	OFF	ON	ON	ON	OFF	ON
764360	OFF	ON	OFF	OFF	OFF	ON	ON	ON	ON	OFF
764370	OFF	ON	OFF	OFF	OFF	ON	ON	ON	ON	ON
764400	OFF	ON	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF
764410	OFF	ON	OFF	OFF	ON	OFF	OFF	OFF	OFF	ON
764420	OFF	ON	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
764430	OFF	ON	OFF	OFF	ON	OFF	OFF	OFF	ON	ON
764440	OFF	ON	OFF	OFF	ON	OFF	OFF	ON	OFF	OFF
764450	OFF	ON	OFF	OFF	ON	OFF	OFF	ON	OFF	ON
764460	OFF	ON	OFF	OFF	ON	OFF	OFF	ON	ON	OFF
764470	OFF	ON	OFF	OFF	ON	OFF	OFF	ON	ON	ON
764500	OFF	ON	OFF	OFF	ON	OFF	ON	OFF	OFF	OFF
764510	OFF	ON	OFF	OFF	ON	OFF	ON	OFF	OFF	ON
764520	OFF	ON	OFF	OFF	ON	OFF	ON	OFF	ON	OFF
764530	OFF	ON	OFF	OFF	ON	OFF	ON	OFF	ON	ON
764540	OFF	ON	OFF	OFF	ON	OFF	ON	ON	OFF	OFF
764550	OFF	ON	OFF	OFF	ON	OFF	ON	ON	OFF	ON
764560	OFF	ON	OFF	OFF	ON	OFF	ON	ON	ON	OFF
764570	OFF	ON	OFF	OFF	ON	OFF	ON	ON	ON	ON
764600	OFF	ON	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF
764610	OFF	ON	OFF	OFF	ON	ON	OFF	OFF	OFF	ON
764620	OFF	ON	OFF	OFF	ON	ON	OFF	OFF	ON	OFF
764630	OFF	ON	OFF	OFF	ON	ON	OFF	OFF	ON	ON
764640	OFF	ON	OFF	OFF	ON	ON	OFF	ON	OFF	OFF
764650	OFF	ON	OFF	OFF	ON	ON	OFF	ON	OFF	ON
764660	OFF	ON	OFF	OFF	ON	ON	OFF	ON	ON	OFF
764670	OFF	ON	OFF	OFF	ON	ON	OFF	ON	ON	ON
764700	OFF	ON	OFF	OFF	ON	ON	ON	OFF	OFF	OFF
764710	OFF	ON	OFF	OFF	ON	ON	ON	OFF	OFF	ON
764720	OFF	ON	OFF	OFF	ON	ON	ON	OFF	ON	OFF
764730	OFF	ON	OFF	OFF	ON	ON	ON	OFF	ON	ON
764740	OFF	ON	OFF	OFF	ON	ON	ON	ON	OFF	OFF
764750	OFF	ON	OFF	OFF	ON	ON	ON	ON	OFF	ON
764760	OFF	ON	OFF	OFF	ON	ON	ON	ON	ON	OFF
764770	OFF	ON	OFF	OFF	ON	ON	ON	ON	ON	ON
765000	OFF	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF
765010	OFF	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF	ON
765020	OFF	ON	OFF	ON	OFF	OFF	OFF	OFF	ON	OFF
765030	OFF	ON	OFF	ON	OFF	OFF	OFF	OFF	ON	ON
765040	OFF	ON	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
765050	OFF	ON	OFF	ON	OFF	OFF	OFF	ON	OFF	ON
765060	OFF	ON	OFF	ON	OFF	OFF	OFF	ON	ON	OFF
765070	OFF	ON	OFF	ON	OFF	OFF	OFF	ON	ON	ON

ADDRESS	-----SW1 SWITCH POSITIONS-----									
	3	5	8	9	7	4	2	1	10	6
	-----ADDRESS BITS-----									
	A12	A11	A10	A09	A08	A07	A06	A05	A04	A03
765100	OFF	ON	OFF	ON	OFF	OFF	ON	OFF	OFF	OFF
765110	OFF	ON	OFF	ON	OFF	OFF	ON	OFF	OFF	ON
765120	OFF	ON	OFF	ON	OFF	OFF	ON	OFF	ON	OFF
765130	OFF	ON	OFF	ON	OFF	OFF	ON	OFF	ON	ON
765140	OFF	ON	OFF	ON	OFF	OFF	ON	ON	OFF	OFF
765150	OFF	ON	OFF	ON	OFF	OFF	ON	ON	OFF	ON
765160	OFF	ON	OFF	ON	OFF	OFF	ON	ON	ON	OFF
765170	OFF	ON	OFF	ON	OFF	OFF	ON	ON	ON	ON
765200	OFF	ON	OFF	ON	OFF	ON	OFF	OFF	OFF	OFF
765210	OFF	ON	OFF	ON	OFF	ON	OFF	OFF	OFF	ON
765220	OFF	ON	OFF	ON	OFF	ON	OFF	OFF	ON	OFF
765230	OFF	ON	OFF	ON	OFF	ON	OFF	OFF	ON	ON
765240	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	OFF
765250	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON
765260	OFF	ON	OFF	ON	OFF	ON	OFF	ON	ON	OFF
765270	OFF	ON	OFF	ON	OFF	ON	OFF	ON	ON	ON
765300	OFF	ON	OFF	ON	OFF	ON	ON	OFF	OFF	OFF
765310	OFF	ON	OFF	ON	OFF	ON	ON	OFF	OFF	ON
765320	OFF	ON	OFF	ON	OFF	ON	ON	OFF	ON	OFF
765330	OFF	ON	OFF	ON	OFF	ON	ON	OFF	ON	ON
765340	OFF	ON	OFF	ON	OFF	ON	ON	ON	OFF	OFF
765350	OFF	ON	OFF	ON	OFF	ON	ON	ON	OFF	ON
765360	OFF	ON	OFF	ON	OFF	ON	ON	ON	ON	OFF
765370	OFF	ON	OFF	ON	OFF	ON	ON	ON	ON	ON
765400	OFF	ON	OFF	ON	ON	OFF	OFF	OFF	OFF	OFF
765410	OFF	ON	OFF	ON	ON	OFF	OFF	OFF	OFF	ON
765420	OFF	ON	OFF	ON	ON	OFF	OFF	OFF	ON	OFF
765430	OFF	ON	OFF	ON	ON	OFF	OFF	OFF	ON	ON
765440	OFF	ON	OFF	ON	ON	OFF	OFF	OFF	ON	OFF
765450	OFF	ON	OFF	ON	ON	OFF	OFF	OFF	ON	OFF
765460	OFF	ON	OFF	ON	ON	OFF	OFF	OFF	ON	OFF
765470	OFF	ON	OFF	ON	ON	OFF	OFF	OFF	ON	ON
765500	OFF	ON	OFF	ON	ON	OFF	ON	OFF	OFF	OFF
765510	OFF	ON	OFF	ON	ON	OFF	ON	OFF	OFF	ON
765520	OFF	ON	OFF	ON	ON	OFF	ON	OFF	ON	OFF
765530	OFF	ON	OFF	ON	ON	OFF	ON	OFF	ON	ON
765540	OFF	ON	OFF	ON	ON	OFF	ON	OFF	ON	OFF
765550	OFF	ON	OFF	ON	ON	OFF	ON	OFF	ON	ON
765560	OFF	ON	OFF	ON	ON	OFF	ON	OFF	ON	OFF
765570	OFF	ON	OFF	ON	ON	OFF	ON	OFF	ON	ON
765600	OFF	ON	OFF	ON	ON	ON	OFF	OFF	OFF	OFF
765610	OFF	ON	OFF	ON	ON	ON	OFF	OFF	OFF	ON
765620	OFF	ON	OFF	ON	ON	ON	OFF	OFF	ON	OFF
765630	OFF	ON	OFF	ON	ON	ON	OFF	OFF	ON	ON
765640	OFF	ON	OFF	ON	ON	ON	OFF	ON	OFF	OFF
765650	OFF	ON	OFF	ON	ON	ON	OFF	ON	OFF	ON
765660	OFF	ON	OFF	ON	ON	ON	OFF	ON	ON	OFF
765670	OFF	ON	OFF	ON	ON	ON	OFF	ON	ON	ON

ADDRESS	-----SW1 SWITCH POSITIONS-----									
	3	5	8	9	7	4	2	1	10	6
	-----ADDRESS BITS-----									
A12	A11	A10	A09	A08	A07	A06	A05	A04	A03	
765700	OFF	ON	OFF	ON	ON	ON	ON	OFF	OFF	OFF
765710	OFF	ON	OFF	ON	ON	ON	ON	OFF	OFF	ON
765720	OFF	ON	OFF	ON	ON	ON	ON	OFF	ON	OFF
765730	OFF	ON	OFF	ON	ON	ON	ON	OFF	ON	ON
765740	OFF	ON	OFF	ON	ON	ON	ON	ON	OFF	OFF
765750	OFF	ON	OFF	ON	ON	ON	ON	ON	OFF	ON
765760	OFF	ON	OFF	ON	ON	ON	ON	ON	ON	OFF
765770	OFF	ON	OFF	ON	ON	ON	ON	ON	ON	ON
766000	OFF	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
766010	OFF	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	ON
766020	OFF	ON	ON	OFF	OFF	OFF	OFF	OFF	ON	OFF
766030	OFF	ON	ON	OFF	OFF	OFF	OFF	OFF	ON	ON
766040	OFF	ON	ON	OFF	OFF	OFF	OFF	ON	OFF	OFF
766050	OFF	ON	ON	OFF	OFF	OFF	OFF	ON	OFF	ON
766060	OFF	ON	ON	OFF	OFF	OFF	OFF	ON	ON	OFF
766070	OFF	ON	ON	OFF	OFF	OFF	OFF	ON	ON	ON
766100	OFF	ON	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF
766110	OFF	ON	ON	OFF	OFF	OFF	ON	OFF	OFF	ON
766120	OFF	ON	ON	OFF	OFF	OFF	ON	OFF	ON	OFF
766130	OFF	ON	ON	OFF	OFF	OFF	ON	OFF	ON	ON
766140	OFF	ON	ON	OFF	OFF	OFF	ON	ON	OFF	OFF
766150	OFF	ON	ON	OFF	OFF	OFF	ON	ON	OFF	ON
766160	OFF	ON	ON	OFF	OFF	OFF	ON	ON	ON	OFF
766170	OFF	ON	ON	OFF	OFF	OFF	ON	ON	ON	ON
766200	OFF	ON	ON	OFF	OFF	ON	OFF	OFF	OFF	OFF
766210	OFF	ON	ON	OFF	OFF	ON	OFF	OFF	OFF	ON
766220	OFF	ON	ON	OFF	OFF	ON	OFF	OFF	ON	OFF
766230	OFF	ON	ON	OFF	OFF	ON	OFF	OFF	ON	ON
766240	OFF	ON	ON	OFF	OFF	ON	OFF	ON	OFF	OFF
766250	OFF	ON	ON	OFF	OFF	ON	OFF	ON	OFF	ON
766260	OFF	ON	ON	OFF	OFF	ON	OFF	ON	ON	OFF
766270	OFF	ON	ON	OFF	OFF	ON	OFF	ON	ON	ON
766300	OFF	ON	ON	OFF	OFF	ON	ON	OFF	OFF	OFF
766310	OFF	ON	ON	OFF	OFF	ON	ON	OFF	OFF	ON
766320	OFF	ON	ON	OFF	OFF	ON	ON	OFF	ON	OFF
766330	OFF	ON	ON	OFF	OFF	ON	ON	OFF	ON	ON
766340	OFF	ON	ON	OFF	OFF	ON	ON	ON	OFF	OFF
766350	OFF	ON	ON	OFF	OFF	ON	ON	ON	OFF	ON
766360	OFF	ON	ON	OFF	OFF	ON	ON	ON	ON	OFF
766370	OFF	ON	ON	OFF	OFF	ON	ON	ON	ON	ON
766400	OFF	ON	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF
766410	OFF	ON	ON	OFF	ON	OFF	OFF	OFF	OFF	ON
766420	OFF	ON	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
766430	OFF	ON	ON	OFF	ON	OFF	OFF	OFF	ON	ON
766440	OFF	ON	ON	OFF	ON	OFF	OFF	ON	OFF	OFF
766450	OFF	ON	ON	OFF	ON	OFF	OFF	ON	OFF	ON
766460	OFF	ON	ON	OFF	ON	OFF	OFF	ON	ON	OFF
766470	OFF	ON	ON	OFF	ON	OFF	OFF	ON	ON	ON

ADDRESS	-----SW1 SWITCH POSITIONS-----									
	3	5	8	9	7	4	2	1	10	6
	-----ADDRESS BITS-----									
A12	A11	A10	A09	A08	A07	A06	A05	A04	A03	
766500	OFF	ON	ON	OFF	ON	OFF	ON	OFF	OFF	OFF
766510	OFF	ON	ON	OFF	ON	OFF	ON	OFF	OFF	ON
766520	OFF	ON	ON	OFF	ON	OFF	ON	OFF	OFF	ON
766530	OFF	ON	ON	OFF	ON	OFF	ON	OFF	ON	ON
766540	OFF	ON	ON	OFF	ON	OFF	ON	OFF	ON	OFF
766550	OFF	ON	ON	OFF	ON	OFF	ON	OFF	ON	ON
766560	OFF	ON	ON	OFF	ON	OFF	ON	OFF	ON	OFF
766570	OFF	ON	ON	OFF	ON	OFF	ON	OFF	ON	ON
766600	OFF	ON	ON	OFF	ON	ON	OFF	OFF	OFF	OFF
766610	OFF	ON	ON	OFF	ON	ON	OFF	OFF	OFF	ON
766620	OFF	ON	ON	OFF	ON	ON	OFF	OFF	ON	OFF
766630	OFF	ON	ON	OFF	ON	ON	OFF	OFF	ON	ON
766640	OFF	ON	ON	OFF	ON	ON	OFF	ON	OFF	OFF
766650	OFF	ON	ON	OFF	ON	ON	OFF	ON	OFF	ON
766660	OFF	ON	ON	OFF	ON	ON	OFF	ON	ON	OFF
766670	OFF	ON	ON	OFF	ON	ON	OFF	ON	ON	ON
766700	OFF	ON	ON	OFF	ON	ON	ON	OFF	OFF	OFF
766710	OFF	ON	ON	OFF	ON	ON	ON	OFF	OFF	ON
766720	OFF	ON	ON	OFF	ON	ON	ON	OFF	ON	OFF
766730	OFF	ON	ON	OFF	ON	ON	ON	OFF	ON	ON
766740	OFF	ON	ON	OFF	ON	ON	ON	ON	OFF	OFF
766750	OFF	ON	ON	OFF	ON	ON	ON	ON	OFF	ON
766760	OFF	ON	ON	OFF	ON	ON	ON	ON	ON	OFF
766770	OFF	ON	ON	OFF	ON	ON	ON	ON	ON	ON
767000	OFF	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF
767010	OFF	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	ON
767020	OFF	ON	ON	ON	OFF	OFF	OFF	OFF	ON	OFF
767030	OFF	ON	ON	ON	OFF	OFF	OFF	OFF	ON	ON
767040	OFF	ON	ON	ON	OFF	OFF	OFF	OFF	ON	OFF
767050	OFF	ON	ON	ON	OFF	OFF	OFF	OFF	ON	ON
767060	OFF	ON	ON	ON	OFF	OFF	OFF	OFF	ON	ON
767070	OFF	ON	ON	ON	OFF	OFF	OFF	OFF	ON	ON
767100	OFF	ON	ON	ON	OFF	OFF	ON	OFF	OFF	OFF
767110	OFF	ON	ON	ON	OFF	OFF	ON	OFF	OFF	ON
767120	OFF	ON	ON	ON	OFF	OFF	ON	OFF	ON	OFF
767130	OFF	ON	ON	ON	OFF	OFF	ON	OFF	ON	ON
767140	OFF	ON	ON	ON	OFF	OFF	ON	ON	OFF	OFF
767150	OFF	ON	ON	ON	OFF	OFF	ON	ON	OFF	ON
767160	OFF	ON	ON	ON	OFF	OFF	ON	ON	ON	OFF
767170	OFF	ON	ON	ON	OFF	OFF	ON	ON	ON	ON
767200	OFF	ON	ON	ON	OFF	ON	OFF	OFF	OFF	OFF
767210	OFF	ON	ON	ON	OFF	ON	OFF	OFF	ON	ON
767220	OFF	ON	ON	ON	OFF	ON	OFF	OFF	ON	OFF
767230	OFF	ON	ON	ON	OFF	ON	OFF	OFF	ON	ON
767240	OFF	ON	ON	ON	OFF	ON	OFF	OFF	ON	OFF
767250	OFF	ON	ON	ON	OFF	ON	OFF	OFF	ON	ON
767260	OFF	ON	ON	ON	OFF	ON	OFF	OFF	ON	OFF
767270	OFF	ON	ON	ON	OFF	ON	OFF	OFF	ON	ON

ADDRESS	-----SW1 SWITCH POSITIONS-----										
	3			5 8 9			7 4 2			1 10 6	
	-----ADDRESS BITS-----										
	A12	A11	A10	A09	A08	A07	A06	A05	A04	A03	
767300	OFF	ON	ON	ON	OFF	ON	ON	OFF	OFF	OFF	
767310	OFF	ON	ON	ON	OFF	ON	ON	OFF	OFF	ON	
767320	OFF	ON	ON	ON	OFF	ON	ON	OFF	ON	OFF	
767330	OFF	ON	ON	ON	OFF	ON	ON	OFF	ON	ON	
767340	OFF	ON	ON	ON	OFF	ON	ON	ON	OFF	OFF	
767350	OFF	ON	ON	ON	OFF	ON	ON	ON	OFF	ON	
767360	OFF	ON	ON	ON	OFF	ON	ON	ON	ON	OFF	
767370	OFF	ON	ON	ON	OFF	ON	ON	ON	ON	ON	
767400	OFF	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	
767410	OFF	ON	ON	ON	ON	OFF	OFF	OFF	OFF	ON	
767420	OFF	ON	ON	ON	ON	OFF	OFF	OFF	OFF	ON	
767430	OFF	ON	ON	ON	ON	OFF	OFF	OFF	OFF	ON	
767440	OFF	ON	ON	ON	ON	OFF	OFF	OFF	ON	OFF	
767450	OFF	ON	ON	ON	ON	OFF	OFF	OFF	ON	OFF	
767460	OFF	ON	ON	ON	ON	OFF	OFF	OFF	ON	ON	
767470	OFF	ON	ON	ON	ON	OFF	OFF	OFF	ON	ON	
767500	OFF	ON	ON	ON	ON	OFF	OFF	ON	OFF	OFF	
767510	OFF	ON	ON	ON	ON	OFF	OFF	ON	OFF	ON	
767520	OFF	ON	ON	ON	ON	OFF	OFF	ON	OFF	ON	
767530	OFF	ON	ON	ON	ON	OFF	OFF	ON	OFF	ON	
767540	OFF	ON	ON	ON	ON	OFF	OFF	ON	OFF	OFF	
767550	OFF	ON	ON	ON	ON	OFF	OFF	ON	OFF	ON	
767560	OFF	ON	ON	ON	ON	OFF	OFF	ON	ON	OFF	
767570	OFF	ON	ON	ON	ON	OFF	OFF	ON	ON	ON	
767600	OFF	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	
767610	OFF	ON	ON	ON	ON	ON	OFF	OFF	OFF	ON	
767620	OFF	ON	ON	ON	ON	ON	OFF	ON	OFF	OFF	
767630	OFF	ON	ON	ON	ON	ON	OFF	ON	ON	ON	
767640	OFF	ON	ON	ON	ON	ON	OFF	ON	OFF	OFF	
767650	OFF	ON	ON	ON	ON	ON	OFF	ON	OFF	ON	
767660	OFF	ON	ON	ON	ON	ON	OFF	ON	ON	OFF	
767670	OFF	ON	ON	ON	ON	ON	OFF	ON	ON	ON	
767700	OFF	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	
767710	OFF	ON	ON	ON	ON	ON	ON	OFF	OFF	ON	
767720	OFF	ON	ON	ON	ON	ON	ON	OFF	ON	OFF	
767730	OFF	ON	ON	ON	ON	ON	ON	OFF	ON	ON	
767740	OFF	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	
767750	OFF	ON	ON	ON	ON	ON	ON	ON	OFF	ON	
767760	OFF	ON	ON	ON	ON	ON	ON	ON	ON	OFF	
767770	OFF	ON	ON	ON	ON	ON	ON	ON	ON	ON	
770000	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
770010	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	
770020	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF	
770030	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	
770040	ON	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF	
770050	ON	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF	ON	
770060	ON	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	OFF	
770070	ON	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	

ADDRESS	-----SW1 SWITCH POSITIONS-----										
	3			5 8 9			7 4 2			1 10 6	
	-----ADDRESS BITS-----										
	A12	A11	A10	A09	A08	A07	A06	A05	A04	A03	
770100	ON	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	
770110	ON	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF	ON	
770120	ON	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF	ON	
770130	ON	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF	ON	
770140	ON	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF	ON	
770150	ON	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF	ON	
770160	ON	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF	ON	
770170	ON	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF	ON	
770200	ON	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF	
770210	ON	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON	
770220	ON	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON	
770230	ON	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON	
770240	ON	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON	
770250	ON	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON	
770260	ON	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON	
770270	ON	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON	
770300	ON	OFF	OFF	OFF	OFF	ON	ON	ON	OFF	OFF	
770310	ON	OFF	OFF	OFF	OFF	ON	ON	ON	OFF	OFF	
770320	ON	OFF	OFF	OFF	OFF	ON	ON	ON	OFF	ON	
770330	ON	OFF	OFF	OFF	OFF	ON	ON	ON	OFF	ON	
770340	ON	OFF	OFF	OFF	OFF	ON	ON	ON	ON	OFF	
770350	ON	OFF	OFF	OFF	OFF	ON	ON	ON	ON	OFF	
770360	ON	OFF	OFF	OFF	OFF	ON	ON	ON	ON	OFF	
770370	ON	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	
770400	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	
770410	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF	ON	
770420	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF	ON	
770430	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF	ON	
770440	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF	ON	
770450	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF	ON	
770460	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF	ON	
770470	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF	ON	
770500	ON	OFF	OFF	OFF	ON	OFF	ON	ON	OFF	OFF	
770510	ON	OFF	OFF	OFF	ON	OFF	ON	ON	OFF	OFF	
770520	ON	OFF	OFF	OFF	ON	OFF	ON	ON	OFF	ON	
770530	ON	OFF	OFF	OFF	ON	OFF	ON	ON	OFF	ON	
770540	ON	OFF	OFF	OFF	ON	OFF	ON	ON	OFF	OFF	
770550	ON	OFF	OFF	OFF	ON	OFF	ON	ON	OFF	ON	
770560	ON	OFF	OFF	OFF	ON	OFF	ON	ON	ON	OFF	
770570	ON	OFF	OFF	OFF	ON	OFF	ON	ON	ON	ON	
770600	ON	OFF	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF	
770610	ON	OFF	OFF	OFF	ON	ON	OFF	OFF	OFF	ON	
770620	ON	OFF	OFF	OFF	ON	ON	OFF	OFF	ON	OFF	
770630	ON	OFF	OFF	OFF	ON	ON	OFF	OFF	ON	ON	
770640	ON	OFF	OFF	OFF	ON	ON	OFF	OFF	ON	OFF	
770650	ON	OFF	OFF	OFF	ON	ON	OFF	OFF	ON	OFF	
770660	ON	OFF	OFF	OFF	ON	ON	OFF	OFF	ON	ON	
770670	ON	OFF	OFF	OFF	ON	ON	OFF	OFF	ON	ON	

ADDRESS	SW1 SWITCH POSITIONS											
	3			5 8 9			7 4 2			1 10 6		
	ADDRESS BITS											
A12	A11	A10	A09	A08	A07	A06	A05	A04	A03			
770700	ON	OFF	OFF	OFF	ON	ON	ON	OFF	OFF	OFF		
770710	ON	OFF	OFF	OFF	ON	ON	ON	OFF	OFF	ON		
770720	ON	OFF	OFF	OFF	ON	ON	ON	OFF	ON	OFF		
770730	ON	OFF	OFF	OFF	ON	ON	ON	OFF	ON	ON		
770740	ON	OFF	OFF	OFF	ON	ON	ON	ON	OFF	OFF		
770750	ON	OFF	OFF	OFF	ON	ON	ON	ON	OFF	ON		
770760	ON	OFF	OFF	OFF	ON	ON	ON	ON	ON	OFF		
770770	ON	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON		
771000	ON	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF		
771010	ON	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	ON		
771020	ON	OFF	OFF	ON	OFF	OFF	OFF	OFF	ON	OFF		
771030	ON	OFF	OFF	ON	OFF	OFF	OFF	OFF	ON	ON		
771040	ON	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF		
771050	ON	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF	ON		
771060	ON	OFF	OFF	ON	OFF	OFF	OFF	ON	ON	OFF		
771070	ON	OFF	OFF	ON	OFF	OFF	OFF	ON	ON	ON		
771100	ON	OFF	OFF	ON	OFF	OFF	ON	OFF	OFF	OFF		
771110	ON	OFF	OFF	ON	OFF	OFF	ON	OFF	OFF	ON		
771120	ON	OFF	OFF	ON	OFF	OFF	ON	OFF	ON	OFF		
771130	ON	OFF	OFF	ON	OFF	OFF	ON	OFF	ON	ON		
771140	ON	OFF	OFF	ON	OFF	OFF	ON	ON	OFF	OFF		
771150	ON	OFF	OFF	ON	OFF	OFF	ON	ON	OFF	ON		
771160	ON	OFF	OFF	ON	OFF	OFF	ON	ON	ON	OFF		
771170	ON	OFF	OFF	ON	OFF	OFF	ON	ON	ON	ON		
771200	ON	OFF	OFF	ON	OFF	ON	OFF	OFF	OFF	OFF		
771210	ON	OFF	OFF	ON	OFF	ON	OFF	OFF	OFF	ON		
771220	ON	OFF	OFF	ON	OFF	ON	OFF	OFF	ON	OFF		
771230	ON	OFF	OFF	ON	OFF	ON	OFF	OFF	ON	ON		
771240	ON	OFF	OFF	ON	OFF	ON	OFF	ON	OFF	OFF		
771250	ON	OFF	OFF	ON	OFF	ON	OFF	ON	OFF	ON		
771260	ON	OFF	OFF	ON	OFF	ON	OFF	ON	ON	OFF		
771270	ON	OFF	OFF	ON	OFF	ON	OFF	ON	ON	ON		
771300	ON	OFF	OFF	ON	OFF	ON	ON	OFF	OFF	OFF		
771310	ON	OFF	OFF	ON	OFF	ON	ON	OFF	OFF	ON		
771320	ON	OFF	OFF	ON	OFF	ON	ON	OFF	ON	OFF		
771330	ON	OFF	OFF	ON	OFF	ON	ON	OFF	ON	ON		
771340	ON	OFF	OFF	ON	OFF	ON	ON	ON	OFF	OFF		
771350	ON	OFF	OFF	ON	OFF	ON	ON	ON	OFF	ON		
771360	ON	OFF	OFF	ON	OFF	ON	ON	ON	ON	OFF		
771370	ON	OFF	OFF	ON	OFF	ON	ON	ON	ON	ON		
771400	ON	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF	OFF		
771410	ON	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF	ON		
771420	ON	OFF	OFF	ON	ON	OFF	OFF	OFF	ON	OFF		
771430	ON	OFF	OFF	ON	ON	OFF	OFF	OFF	ON	ON		
771440	ON	OFF	OFF	ON	ON	OFF	OFF	ON	OFF	OFF		
771450	ON	OFF	OFF	ON	ON	OFF	OFF	ON	OFF	ON		
771460	ON	OFF	OFF	ON	ON	OFF	OFF	ON	ON	OFF		
771470	ON	OFF	OFF	ON	ON	OFF	OFF	ON	ON	ON		

ADDRESS	SW1 SWITCH POSITIONS											
	3			5 8 9			7 4 2			1 10 6		
	ADDRESS BITS											
A12	A11	A10	A09	A08	A07	A06	A05	A04	A03			
771500	ON	OFF	OFF	ON	ON	OFF	ON	OFF	OFF	OFF		
771510	ON	OFF	OFF	ON	ON	OFF	ON	OFF	OFF	ON		
771520	ON	OFF	OFF	ON	ON	OFF	ON	OFF	ON	OFF		
771530	ON	OFF	OFF	ON	ON	OFF	ON	OFF	ON	ON		
771540	ON	OFF	OFF	ON	ON	OFF	ON	OFF	ON	OFF		
771550	ON	OFF	OFF	ON	ON	OFF	ON	OFF	ON	ON		
771560	ON	OFF	OFF	ON	ON	OFF	ON	OFF	ON	ON		
771570	ON	OFF	OFF	ON	ON	OFF	ON	OFF	ON	ON		
771600	ON	OFF	OFF	ON	ON	ON	OFF	OFF	OFF	OFF		
771610	ON	OFF	OFF	ON	ON	ON	OFF	OFF	OFF	ON		
771620	ON	OFF	OFF	ON	ON	ON	OFF	OFF	ON	OFF		
771630	ON	OFF	OFF	ON	ON	ON	OFF	OFF	ON	ON		
771640	ON	OFF	OFF	ON	ON	ON	OFF	OFF	ON	OFF		
771650	ON	OFF	OFF	ON	ON	ON	OFF	OFF	ON	ON		
771660	ON	OFF	OFF	ON	ON	ON	OFF	ON	ON	OFF		
771670	ON	OFF	OFF	ON	ON	ON	OFF	ON	ON	ON		
771700	ON	OFF	OFF	ON	ON	ON	ON	OFF	OFF	OFF		
771710	ON	OFF	OFF	ON	ON	ON	ON	OFF	OFF	ON		
771720	ON	OFF	OFF	ON	ON	ON	ON	OFF	ON	OFF		
771730	ON	OFF	OFF	ON	ON	ON	ON	OFF	ON	ON		
771740	ON	OFF	OFF	ON	ON	ON	ON	ON	OFF	OFF		
771750	ON	OFF	OFF	ON	ON	ON	ON	ON	ON	ON		
771760	ON	OFF	OFF	ON	ON	ON	ON	ON	ON	OFF		
771771	ON	OFF	OFF	ON	ON	ON	ON	ON	ON	ON		
772000	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF		
772010	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	ON		
772020	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	ON		
772030	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	ON		
772040	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	ON		
772050	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	ON		
772060	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	ON		
772070	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	ON		
772100	ON	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF		
772110	ON	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF	ON		
772120	ON	OFF	ON	OFF	OFF	OFF	ON	OFF	ON	OFF		
772130	ON	OFF	ON	OFF	OFF	OFF	ON	OFF	ON	ON		
772140	ON	OFF	ON	OFF	OFF	OFF	ON	OFF	ON	OFF		
772150	ON	OFF	ON	OFF	OFF	OFF	ON	OFF	ON	ON		
772160	ON	OFF	ON	OFF	OFF	OFF	ON	OFF	ON	OFF		
772170	ON	OFF	ON	OFF	OFF	OFF	ON	OFF	ON	ON		
772200	ON	OFF	ON	OFF	OFF	ON	OFF	OFF	OFF	OFF		
772210	ON	OFF	ON	OFF	OFF	ON	OFF	OFF	OFF	ON		
772220	ON	OFF	ON	OFF	OFF	ON	OFF	OFF	OFF	ON		
772230	ON	OFF	ON	OFF	OFF	ON	OFF	OFF	OFF	ON		
772240	ON	OFF	ON	OFF	OFF	ON	OFF	OFF	OFF	ON		
772250	ON	OFF	ON	OFF	OFF	ON	OFF	OFF	OFF	ON		
772260	ON	OFF	ON	OFF	OFF	ON	OFF	OFF	OFF	ON		
772270	ON	OFF	ON	OFF	OFF	ON	OFF	OFF	OFF	ON		

ADDRESS	-----SW1 SWITCH POSITIONS-----											
	3			5 8 9			7 4 2			1 10 6		
	-----ADDRESS BITS-----											
A12	A11	A10	A09	A08	A07	A06	A05	A04	A03			
772300	ON	OFF	ON	OFF	OFF	ON	ON	OFF	OFF	OFF		
772310	ON	OFF	ON	OFF	OFF	ON	ON	OFF	OFF	ON		
772320	ON	OFF	ON	OFF	OFF	ON	ON	OFF	ON	OFF		
772330	ON	OFF	ON	OFF	OFF	ON	ON	OFF	ON	ON		
772340	ON	OFF	ON	OFF	OFF	ON	ON	ON	OFF	OFF		
772350	ON	OFF	ON	OFF	OFF	ON	ON	ON	OFF	ON		
772360	ON	OFF	ON	OFF	OFF	ON	ON	ON	ON	OFF		
772370	ON	OFF	ON	OFF	OFF	ON	ON	ON	ON	ON		
772400	ON	OFF	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF		
772410	ON	OFF	ON	OFF	ON	OFF	OFF	OFF	OFF	ON		
772420	ON	OFF	ON	OFF	ON	OFF	OFF	OFF	ON	OFF		
772430	ON	OFF	ON	OFF	ON	OFF	OFF	OFF	ON	ON		
772440	ON	OFF	ON	OFF	ON	OFF	OFF	ON	OFF	OFF		
772450	ON	OFF	ON	OFF	ON	OFF	OFF	ON	OFF	ON		
772460	ON	OFF	ON	OFF	ON	OFF	OFF	ON	ON	OFF		
772470	ON	OFF	ON	OFF	ON	OFF	OFF	ON	ON	ON		
772500	ON	OFF	ON	OFF	ON	OFF	ON	OFF	OFF	OFF		
772510	ON	OFF	ON	OFF	ON	OFF	ON	OFF	OFF	ON		
772520	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF		
772530	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	ON		
772540	ON	OFF	ON	OFF	ON	OFF	ON	ON	OFF	OFF		
772550	ON	OFF	ON	OFF	ON	OFF	ON	ON	OFF	ON		
772560	ON	OFF	ON	OFF	ON	OFF	ON	ON	ON	OFF		
772570	ON	OFF	ON	OFF	ON	OFF	ON	ON	ON	ON		
772600	ON	OFF	ON	OFF	ON	ON	OFF	OFF	OFF	OFF		
772610	ON	OFF	ON	OFF	ON	ON	OFF	OFF	OFF	ON		
772620	ON	OFF	ON	OFF	ON	ON	OFF	OFF	ON	OFF		
772630	ON	OFF	ON	OFF	ON	ON	OFF	OFF	ON	ON		
772640	ON	OFF	ON	OFF	ON	ON	OFF	ON	OFF	OFF		
772650	ON	OFF	ON	OFF	ON	ON	OFF	ON	OFF	ON		
772660	ON	OFF	ON	OFF	ON	ON	OFF	ON	ON	OFF		
772670	ON	OFF	ON	OFF	ON	ON	OFF	ON	ON	ON		
772700	ON	OFF	ON	OFF	ON	ON	ON	OFF	OFF	OFF		
772710	ON	OFF	ON	OFF	ON	ON	ON	OFF	OFF	ON		
772720	ON	OFF	ON	OFF	ON	ON	ON	OFF	ON	OFF		
772730	ON	OFF	ON	OFF	ON	ON	ON	OFF	ON	ON		
772740	ON	OFF	ON	OFF	ON	ON	ON	ON	OFF	OFF		
772750	ON	OFF	ON	OFF	ON	ON	ON	ON	OFF	ON		
772760	ON	OFF	ON	OFF	ON	ON	ON	ON	ON	OFF		
772772	ON	OFF	ON	OFF	ON	ON	ON	ON	ON	ON		
773000	ON	OFF	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF		
773010	ON	OFF	ON	ON	OFF	OFF	OFF	OFF	OFF	ON		
773020	ON	OFF	ON	ON	OFF	OFF	OFF	OFF	ON	OFF		
773030	ON	OFF	ON	ON	OFF	OFF	OFF	OFF	ON	ON		
773040	ON	OFF	ON	ON	OFF	OFF	OFF	ON	OFF	OFF		
773050	ON	OFF	ON	ON	OFF	OFF	OFF	ON	OFF	ON		
773060	ON	OFF	ON	ON	OFF	OFF	OFF	ON	ON	OFF		
773070	ON	OFF	ON	ON	OFF	OFF	OFF	ON	ON	ON		

ADDRESS	-----SW1 SWITCH POSITIONS-----											
	3			5 8 9			7 4 2			1 10 6		
	-----ADDRESS BITS-----											
A12	A11	A10	A09	A08	A07	A06	A05	A04	A03			
773100	ON	OFF	ON	ON	OFF	OFF	ON	OFF	OFF	OFF		
773110	ON	OFF	ON	ON	OFF	OFF	ON	OFF	OFF	ON		
773120	ON	OFF	ON	ON	OFF	OFF	ON	OFF	ON	OFF		
773130	ON	OFF	ON	ON	OFF	OFF	ON	OFF	ON	ON		
773140	ON	OFF	ON	ON	OFF	OFF	ON	ON	OFF	OFF		
773150	ON	OFF	ON	ON	OFF	OFF	ON	ON	OFF	ON		
773160	ON	OFF	ON	ON	OFF	OFF	ON	ON	ON	OFF		
773170	ON	OFF	ON	ON	OFF	OFF	ON	ON	ON	ON		
773200	ON	OFF	ON	ON	OFF	ON	OFF	OFF	OFF	OFF		
773210	ON	OFF	ON	ON	OFF	ON	OFF	OFF	OFF	ON		
773220	ON	OFF	ON	ON	OFF	ON	OFF	OFF	ON	OFF		
773230	ON	OFF	ON	ON	OFF	ON	OFF	OFF	ON	ON		
773240	ON	OFF	ON	ON	OFF	ON	OFF	ON	OFF	OFF		
773250	ON	OFF	ON	ON	OFF	ON	OFF	ON	OFF	ON		
773260	ON	OFF	ON	ON	OFF	ON	OFF	ON	ON	OFF		
773270	ON	OFF	ON	ON	OFF	ON	OFF	ON	ON	ON		
773300	ON	OFF	ON	ON	OFF	ON	ON	OFF	OFF	OFF		
773310	ON	OFF	ON	ON	OFF	ON	ON	OFF	OFF	ON		
773320	ON	OFF	ON	ON	OFF	ON	ON	OFF	ON	OFF		
773330	ON	OFF	ON	ON	OFF	ON	ON	OFF	ON	ON		
773340	ON	OFF	ON	ON	OFF	ON	ON	ON	OFF	OFF		
773350	ON	OFF	ON	ON	OFF	ON	ON	ON	OFF	ON		
773360	ON	OFF	ON	ON	OFF	ON	ON	ON	ON	OFF		
773370	ON	OFF	ON	ON	OFF	ON	ON	ON	ON	ON		
773400	ON	OFF	ON	ON	ON	OFF	OFF	OFF	OFF	OFF		
773410	ON	OFF	ON	ON	ON	OFF	OFF	OFF	OFF	ON		
773420	ON	OFF	ON	ON	ON	OFF	OFF	OFF	OFF	ON		
773430	ON	OFF	ON	ON	ON	OFF	OFF	OFF	OFF	ON		
773440	ON	OFF	ON	ON	ON	OFF	OFF	OFF	ON	OFF		
773450	ON	OFF	ON	ON	ON	OFF	OFF	OFF	ON	OFF		
773460	ON	OFF	ON	ON	ON	OFF	OFF	OFF	ON	ON		
773470	ON	OFF	ON	ON	ON	OFF	OFF	OFF	ON	ON		
773500	ON	OFF	ON	ON	ON	OFF	ON	ON	OFF	OFF		
773510	ON	OFF	ON	ON	ON	OFF	ON	ON	OFF	ON		
773520	ON	OFF	ON	ON	ON	OFF	ON	ON	OFF	ON		
773530	ON	OFF	ON	ON	ON	OFF	ON	ON	OFF	ON		
773540	ON	OFF	ON	ON	ON	OFF	ON	ON	ON	OFF		
773550	ON	OFF	ON	ON	ON	OFF	ON	ON	ON	OFF		
773560	ON	OFF	ON	ON	ON	OFF	ON	ON	ON	ON		
773570	ON	OFF	ON	ON	ON	OFF	ON	ON	ON	ON		
773600	ON	OFF	ON	ON	ON	ON	OFF	OFF	OFF	OFF		
773610	ON	OFF	ON	ON	ON	ON	OFF	OFF	OFF	ON		
773620	ON	OFF	ON	ON	ON	ON	OFF	OFF	ON	OFF		
773630	ON	OFF	ON	ON	ON	ON	OFF	OFF	ON	ON		
773640	ON	OFF	ON	ON	ON	ON	OFF	OFF	ON	OFF		
773650	ON	OFF	ON	ON	ON	ON	OFF	OFF	ON	ON		
773660	ON	OFF	ON	ON	ON	ON	OFF	OFF	ON	ON		
773670	ON	OFF	ON	ON	ON	ON	OFF	OFF	ON	ON		

ADDRESS	-----SW1 SWITCH POSITIONS-----									
	3	5	8	9	7	4	2	1	10	6
	-----ADDRESS BITS-----									
A12	A11	A10	A09	A08	A07	A06	A05	A04	A03	
773700	ON	OFF	ON	ON	ON	ON	ON	OFF	OFF	OFF
773710	ON	OFF	ON	ON	ON	ON	ON	OFF	OFF	ON
773720	ON	OFF	ON	ON	ON	ON	ON	OFF	ON	OFF
773730	ON	OFF	ON	ON	ON	ON	ON	OFF	ON	ON
773740	ON	OFF	ON	ON	ON	ON	ON	ON	OFF	OFF
773750	ON	OFF	ON	ON	ON	ON	ON	ON	OFF	ON
773760	ON	OFF	ON	ON	ON	ON	ON	ON	ON	OFF
773770	ON	OFF	ON	ON	ON	ON	ON	ON	ON	ON
774000	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
774010	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON
774020	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
774030	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON
774040	ON	ON	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF
774050	ON	ON	OFF	OFF	OFF	OFF	OFF	ON	OFF	ON
774060	ON	ON	OFF	OFF	OFF	OFF	OFF	ON	ON	OFF
774070	ON	OF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON
774100	ON	ON	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF
774110	ON	ON	OFF	OFF	OFF	OFF	ON	OFF	OFF	ON
774120	ON	ON	OFF	OFF	OFF	OFF	ON	OFF	ON	OFF
774130	ON	ON	OFF	OFF	OFF	OFF	ON	OFF	ON	ON
774140	ON	ON	OFF	OFF	OFF	OFF	ON	ON	OFF	OFF
774150	ON	ON	OFF	OFF	OFF	OFF	ON	ON	OFF	ON
774160	ON	ON	OFF	OFF	OFF	OFF	ON	ON	ON	OFF
774170	ON	ON	OFF	OFF	OFF	OFF	ON	ON	ON	ON
774200	ON	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF
774210	ON	ON	OFF	OFF	OFF	ON	OFF	OFF	ON	ON
774220	ON	ON	OFF	OFF	OFF	ON	OFF	OFF	ON	OFF
774230	ON	ON	OFF	OFF	OFF	ON	OFF	ON	ON	ON
774240	ON	ON	OFF	OFF	OFF	ON	OFF	OFF	ON	OFF
774250	ON	ON	OFF	OFF	OFF	ON	OFF	ON	ON	ON
774260	ON	ON	OFF	OFF	OFF	ON	ON	OFF	ON	OFF
774270	ON	ON	OFF	OFF	OFF	ON	ON	ON	ON	ON
774300	ON	ON	OFF	OFF	OFF	ON	ON	OFF	OFF	OFF
774310	ON	ON	OFF	OFF	OFF	ON	ON	OFF	ON	ON
774320	ON	ON	OFF	OFF	OFF	ON	ON	OFF	ON	OFF
774330	ON	ON	OFF	OFF	OFF	ON	ON	OFF	ON	ON
774340	ON	ON	OFF	OFF	OFF	ON	ON	ON	OFF	OFF
774350	ON	ON	OFF	OFF	OFF	ON	ON	ON	OFF	ON
774360	ON	ON	OFF	OFF	OFF	ON	ON	ON	ON	OFF
774370	ON	ON	OFF	OFF	OFF	ON	ON	ON	ON	ON
774400	ON	ON	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF
774410	ON	ON	OFF	OFF	ON	OFF	OFF	OFF	ON	ON
774420	ON	ON	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
774430	ON	ON	OFF	OFF	ON	OFF	OFF	OFF	ON	ON
774440	ON	ON	OFF	OFF	ON	OFF	OFF	ON	OFF	OFF
774450	ON	ON	OFF	OFF	ON	OFF	OFF	ON	OFF	ON
774460	ON	ON	OFF	OFF	ON	OFF	OFF	ON	ON	OFF
774470	ON	ON	OFF	OFF	ON	OFF	OFF	ON	ON	ON

ADDRESS	-----SW1 SWITCH POSITIONS-----									
	3	5	8	9	7	4	2	1	10	6
	-----ADDRESS BITS-----									
A12	A11	A10	A09	A08	A07	A06	A05	A04	A03	
774500	ON	ON	OFF	OFF	ON	OFF	ON	OFF	OFF	OFF
774510	ON	ON	OFF	OFF	ON	OFF	ON	OFF	OFF	ON
774520	ON	ON	OFF	OFF	ON	OFF	ON	OFF	ON	OFF
774530	ON	ON	OFF	OFF	ON	OFF	ON	OFF	ON	ON
774540	ON	ON	OFF	OFF	ON	OFF	ON	ON	OFF	OFF
774550	ON	ON	OFF	OFF	ON	OFF	ON	ON	OFF	ON
774560	ON	ON	OFF	OFF	ON	OFF	ON	ON	ON	OFF
774570	ON	ON	OFF	OFF	ON	OFF	ON	ON	ON	ON
774600	ON	ON	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF
774610	ON	ON	OFF	OFF	ON	ON	OFF	OFF	OFF	ON
774620	ON	ON	OFF	OFF	ON	ON	OFF	OFF	ON	OFF
774630	ON	ON	OFF	OFF	ON	ON	OFF	OFF	ON	ON
774640	ON	ON	OFF	OFF	ON	ON	OFF	ON	OFF	OFF
774650	ON	ON	OFF	OFF	ON	ON	OFF	ON	OFF	ON
774660	ON	ON	OFF	OFF	ON	ON	OFF	ON	ON	OFF
774670	ON	ON	OFF	OFF	ON	ON	OFF	ON	ON	ON
774700	ON	ON	OFF	OFF	ON	ON	ON	OFF	OFF	OFF
774710	ON	ON	OFF	OFF	ON	ON	ON	OFF	OFF	ON
774720	ON	ON	OFF	OFF	ON	ON	ON	OFF	ON	OFF
774730	ON	ON	OFF	OFF	ON	ON	ON	OFF	ON	ON
774740	ON	ON	OFF	OFF	ON	ON	ON	ON	OFF	OFF
774750	ON	ON	OFF	OFF	ON	ON	ON	ON	OFF	ON
774760	ON	ON	OFF	OFF	ON	ON	ON	ON	ON	OFF
774770	ON	ON	OFF	OFF	ON	ON	ON	ON	ON	ON
775000	ON	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF
775010	ON	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF	ON
775020	ON	ON	OFF	ON	OFF	OFF	OFF	OFF	ON	OFF
775030	ON	ON	OFF	ON	OFF	OFF	OFF	OFF	ON	ON
775040	ON	ON	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
775050	ON	ON	OFF	ON	OFF	OFF	OFF	ON	OFF	ON
775060	ON	ON	OFF	ON	OFF	OFF	OFF	ON	ON	OFF
775070	ON	ON	OFF	ON	OFF	OFF	OFF	ON	ON	ON
775100	ON	ON	OFF	ON	OFF	OFF	ON	OFF	OFF	OFF
775110	ON	ON	OFF	ON	OFF	OFF	ON	OFF	OFF	ON
775120	ON	ON	OFF	ON	OFF	OFF	ON	OFF	ON	OFF
775130	ON	ON	OFF	ON	OFF	OFF	ON	OFF	ON	ON
775140	ON	ON	OFF	ON	OFF	OFF	ON	ON	OFF	OFF
775150	ON	ON	OFF	ON	OFF	OFF	ON	ON	OFF	ON
775160	ON	ON	OFF	ON	OFF	OFF	ON	ON	ON	OFF
775170	ON	ON	OFF	ON	OFF	OFF	ON	ON	ON	ON
775200	ON	ON	OFF	ON	OFF	ON	OFF	OFF	OFF	OFF
775210	ON	ON	OFF	ON	OFF	ON	OFF	OFF	ON	ON
775220	ON	ON	OFF	ON	OFF	ON	OFF	OFF	ON	OFF
775230	ON	ON	OFF	ON	OFF	ON	OFF	OFF	ON	ON
775240	ON	ON	OFF	ON	OFF	ON	OFF	ON	OFF	OFF
775250	ON	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON
775260	ON	ON	OFF	ON	OFF	ON	OFF	ON	ON	OFF
775270	ON	ON	OFF	ON	OFF	ON	OFF	ON	ON	ON

ADDRESS	-----SW1 SWITCH POSITIONS-----										
	3	5	8	9	7	4	2	1	10	6	
	-----ADDRESS BITS-----										
	A12	A11	A10	A09	A08	A07	A06	A05	A04	A03	
775300	ON	ON	OFF	ON	OFF	ON	ON	OFF	OFF	OFF	
775310	ON	ON	OFF	ON	OFF	ON	ON	OFF	OFF	ON	
775320	ON	ON	OFF	ON	OFF	ON	ON	OFF	ON	OFF	
775330	ON	ON	OFF	ON	OFF	ON	ON	OFF	ON	ON	
775340	ON	ON	OFF	ON	OFF	ON	ON	ON	OFF	OFF	
775350	ON	ON	OFF	ON	OFF	ON	ON	ON	OFF	ON	
775360	ON	ON	OFF	ON	OFF	ON	ON	ON	ON	OFF	
775370	ON	ON	OFF	ON	OFF	ON	ON	ON	ON	ON	
775400	ON	ON	OFF	ON	ON	OFF	OFF	OFF	OFF	OFF	
775410	ON	ON	OFF	ON	ON	OFF	OFF	OFF	OFF	ON	
775420	ON	ON	OFF	ON	ON	OFF	OFF	OFF	ON	OFF	
775430	ON	ON	OFF	ON	ON	OFF	OFF	OFF	ON	ON	
775440	ON	ON	OFF	ON	ON	OFF	OFF	ON	OFF	OFF	
775450	ON	ON	OFF	ON	ON	OFF	OFF	ON	OFF	ON	
775460	ON	ON	OFF	ON	ON	OFF	OFF	ON	ON	OFF	
775470	ON	ON	OFF	ON	ON	OFF	OFF	ON	ON	ON	
775500	ON	ON	OFF	ON	ON	OFF	ON	OFF	OFF	OFF	
775510	ON	ON	OFF	ON	ON	OFF	ON	OFF	OFF	ON	
775520	ON	ON	OFF	ON	ON	OFF	ON	ON	OFF	OFF	
775530	ON	ON	OFF	ON	ON	OFF	ON	ON	ON	ON	
775540	ON	ON	OFF	ON	ON	OFF	ON	ON	OFF	OFF	
775550	ON	ON	OFF	ON	ON	OFF	ON	ON	OFF	ON	
775560	ON	ON	OFF	ON	ON	OFF	ON	ON	OFF	OFF	
775570	ON	ON	OFF	ON	ON	OFF	ON	ON	ON	ON	
775600	ON	ON	OFF	ON	ON	ON	OFF	OFF	OFF	OFF	
775610	ON	ON	OFF	ON	ON	ON	OFF	OFF	OFF	ON	
775620	ON	ON	OFF	ON	ON	ON	OFF	OFF	ON	OFF	
775630	ON	ON	OFF	ON	ON	ON	OFF	OFF	ON	ON	
775640	ON	ON	OFF	ON	ON	ON	OFF	ON	OFF	OFF	
775650	ON	ON	OFF	ON	ON	ON	OFF	ON	OFF	ON	
775660	ON	ON	OFF	ON	ON	ON	OFF	ON	ON	OFF	
775670	ON	ON	OFF	ON	ON	ON	OFF	ON	ON	ON	
775700	ON	ON	OFF	ON	ON	ON	ON	OFF	OFF	OFF	
775710	ON	ON	OFF	ON	ON	ON	ON	OFF	OFF	ON	
775720	ON	ON	OFF	ON	ON	ON	ON	OFF	ON	OFF	
775730	ON	ON	OFF	ON	ON	ON	ON	OFF	ON	ON	
775740	ON	ON	OFF	ON	ON	ON	ON	ON	OFF	OFF	
775750	ON	ON	OFF	ON	ON	ON	ON	ON	OFF	ON	
775760	ON	ON	OFF	ON	ON	ON	ON	ON	ON	OFF	
775770	ON	ON	OFF	ON	ON	ON	ON	ON	ON	ON	
776000	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
776010	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	ON	
776020	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	ON	OFF	
776030	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	ON	ON	
776040	ON	ON	ON	OFF	OFF	OFF	OFF	ON	OFF	OFF	
776050	ON	ON	ON	OFF	OFF	OFF	OFF	ON	OFF	ON	
776060	ON	ON	ON	OFF	OFF	OFF	OFF	ON	ON	OFF	
776070	ON	ON	ON	OFF	OFF	OFF	OFF	ON	ON	ON	

ADDRESS	-----SW1 SWITCH POSITIONS-----										
	3	5	8	9	7	4	2	1	10	6	
	-----ADDRESS BITS-----										
	A12	A11	A10	A09	A08	A07	A06	A05	A04	A03	
776100	ON	ON	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF	
776110	ON	ON	ON	OFF	OFF	OFF	ON	OFF	OFF	ON	
776120	ON	ON	ON	OFF	OFF	OFF	ON	OFF	ON	OFF	
776130	ON	ON	ON	OFF	OFF	OFF	ON	OFF	ON	ON	
776140	ON	ON	ON	OFF	OFF	OFF	ON	ON	OFF	OFF	
776150	ON	ON	ON	OFF	OFF	OFF	ON	ON	OFF	ON	
776160	ON	ON	ON	OFF	OFF	OFF	ON	ON	OFF	ON	
776170	ON	ON	ON	OFF	OFF	OFF	ON	ON	ON	ON	
776200	ON	ON	ON	OFF	OFF	ON	OFF	OFF	OFF	OFF	
776210	ON	ON	ON	OFF	OFF	ON	OFF	OFF	OFF	ON	
776220	ON	ON	ON	OFF	OFF	ON	OFF	OFF	ON	OFF	
776230	ON	ON	ON	OFF	OFF	ON	OFF	OFF	ON	ON	
776240	ON	ON	ON	OFF	OFF	ON	OFF	ON	OFF	OFF	
776250	ON	ON	ON	OFF	OFF	ON	OFF	ON	OFF	ON	
776260	ON	ON	ON	OFF	OFF	ON	OFF	ON	ON	OFF	
776270	ON	ON	ON	OFF	OFF	ON	OFF	ON	ON	ON	
776300	ON	ON	ON	OFF	OFF	ON	ON	OFF	OFF	OFF	
776310	ON	ON	ON	OFF	OFF	ON	ON	OFF	OFF	ON	
776320	ON	ON	ON	OFF	OFF	ON	ON	OFF	OFF	ON	
776330	ON	ON	ON	OFF	OFF	ON	ON	OFF	OFF	ON	
776340	ON	ON	ON	OFF	OFF	ON	ON	OFF	ON	OFF	
776350	ON	ON	ON	OFF	OFF	ON	ON	OFF	ON	OFF	
776360	ON	ON	ON	OFF	OFF	ON	ON	OFF	ON	ON	
776370	ON	ON	ON	OFF	OFF	ON	ON	OFF	ON	ON	
776400	ON	ON	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF	
776410	ON	ON	ON	OFF	ON	OFF	OFF	OFF	OFF	ON	
776420	ON	ON	ON	OFF	ON	OFF	OFF	OFF	OFF	ON	
776430	ON	ON	ON	OFF	ON	OFF	OFF	OFF	OFF	ON	
776440	ON	ON	ON	OFF	ON	OFF	OFF	OFF	OFF	ON	
776450	ON	ON	ON	OFF	ON	OFF	OFF	OFF	OFF	ON	
776460	ON	ON	ON	OFF	ON	OFF	OFF	OFF	OFF	ON	
776470	ON	ON	ON	OFF	ON	OFF	OFF	OFF	OFF	ON	
776500	ON	ON	ON	OFF	ON	OFF	ON	OFF	OFF	OFF	
776510	ON	ON	ON	OFF	ON	OFF	ON	OFF	OFF	ON	
776520	ON	ON	ON	OFF	ON	OFF	ON	OFF	OFF	ON	
776530	ON	ON	ON	OFF	ON	OFF	ON	OFF	ON	ON	
776540	ON	ON	ON	OFF	ON	OFF	ON	OFF	OFF	OFF	
776550	ON	ON	ON	OFF	ON	OFF	ON	OFF	OFF	ON	
776560	ON	ON	ON	OFF	ON	OFF	ON	OFF	ON	ON	
776570	ON	ON	ON	OFF	ON	OFF	ON	OFF	ON	ON	
776600	ON	ON	ON	OFF	ON	ON	OFF	OFF	OFF	OFF	
776610	ON	ON	ON	OFF	ON	ON	OFF	OFF	OFF	ON	
776620	ON	ON	ON	OFF	ON	ON	OFF	OFF	ON	OFF	
776630	ON	ON	ON	OFF	ON	ON	OFF	OFF	ON	ON	
776640	ON	ON	ON	OFF	ON	ON	OFF	ON	OFF	OFF	
776650	ON	ON	ON	OFF	ON	ON	OFF	ON	OFF	ON	
776660	ON	ON	ON	OFF	ON	ON	OFF	ON	ON	OFF	
776670	ON	ON	ON	OFF	ON	ON	OFF	ON	ON	ON	

