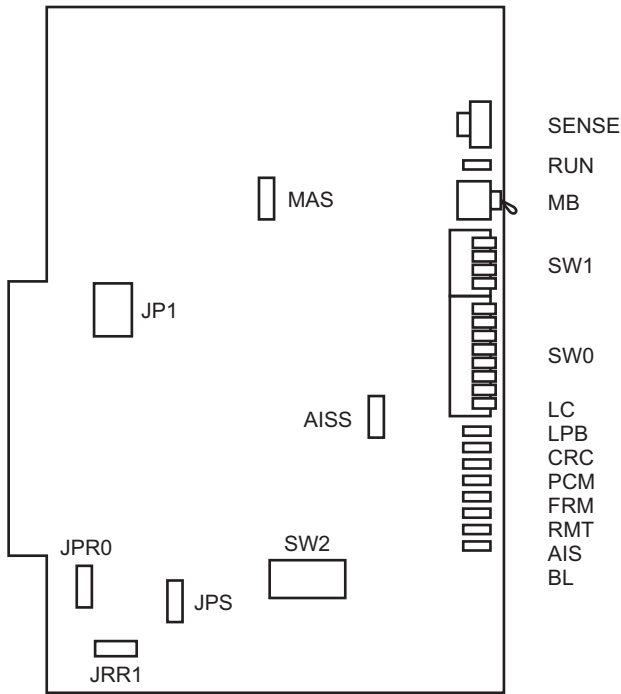


PN-24CCTA (CCT)


Locations of Lamps, Switches, and Connectors



## Lamp Indications

LAMP NAME	COLOR	FUNCTION
RUN	Green	Flashes at 120 IPM while this card is operating normally.
LC	Green	Remains lit when communications are normally ongoing with the common signaling channel data links connected.
LPB	Green	Remains lit when a loopback test is in progress.
CRC	Red	Remains lit when detecting Cyclic Redundancy Checking (CRC) errors.
PCM	Red	Remains lit when detecting PCM signal loss.
FRM	Red	Remains lit when detecting Frame Alignment signal loss.
RMT	Red	Remains lit when receiving Frame Alignment signal loss alarm from a distant office.
AIS	Red	Remains lit when a pattern of consecutive “1” is received. The distant office transmits this signal for a loopback test.
BL	Red	B channel status ON : More than 10 channels are busy OFF : All channels are idle Flash (60 IPM) : Only one channel is busy Flash (120 IPM) : 2 through 10 channels are busy


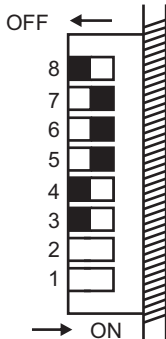
## Switch Settings

SWITCH NAME	SWITCH NUMBER	SETTING POSITION	FUNCTION																CHECK																																									
SENSE (Rotary SW) 	0-3	Not used																																																										
	4-F	Set the switch to match the AP Number (04-31) to be set by CM05.																																																										
			<table><tr><td rowspan="2">AP No.</td><td>SW1-4: ON</td><td>04</td><td>05</td><td>06</td><td>07</td><td>08</td><td>09</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td></tr><tr><td>SW1-4: OFF</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td></tr><tr><td colspan="2">SW No.</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>A</td><td>B</td><td>C</td><td>D</td><td>E</td><td>F</td></tr></table>																AP No.	SW1-4: ON	04	05	06	07	08	09	10	11	12	13	14	15	SW1-4: OFF	20	21	22	23	24	25	26	27	28	29	30	31	SW No.		4	5	6	7	8	9	A	B	C	D	E	F	
	AP No.	SW1-4: ON	04	05	06	07	08	09	10	11	12	13	14	15																																														
SW1-4: OFF		20	21	22	23	24	25	26	27	28	29	30	31																																															
SW No.		4	5	6	7	8	9	A	B	C	D	E	F																																															

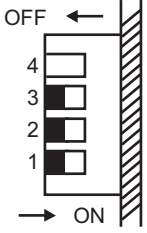
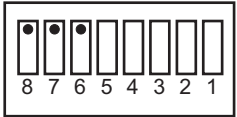
NOTE 1

**NOTE 1**






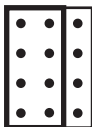
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

SWITCH NAME	SWITCH NUMBER	SETTING POSITION	FUNCTION	CHECK																												
MB (Toggle SW)  <b>NOTE 2</b>		UP	For make-busy																													
		<div>DOWN</div>	For normal operation																													
SW0 (Piano Key SW) 	1 <b>NOTE 3</b> <b>NOTE 4</b>	ON	Source clock signal from network is sent to the PLO0 input on MP card.																													
		OFF	Source clock signal from network is not sent to the PLO0 input on MP card.																													
	2 <b>NOTE 3</b> <b>NOTE 4</b>	ON	Source clock signal from network is sent to the PLO1 input on MP card.																													
		OFF	Source clock signal from network is not sent to the PLO1 input on MP card.																													
	3 <b>NOTE 7</b>	ON	Remote loopback																													
		<div>OFF</div>	For normal operation																													
	4 <b>NOTE 7</b>	ON	Local loopback (AIS send)																													
		<div>OFF</div>	For normal operation																													
	5 <b>NOTE 7</b>	<div>ON</div>	Set equalizer according to the cable length between the PBX and the CSU. <table><tr><th>SW0-5</th><th>SW0-6</th><th>SW0-7</th><th>CABLE LENGTH</th></tr><tr><td>ON</td><td>ON</td><td>ON</td><td>0-40 m (0-131.2 ft.)</td></tr><tr><td>ON</td><td>ON</td><td>OFF</td><td>40-80 m (131.2-262.5 ft.)</td></tr><tr><td>ON</td><td>OFF</td><td>ON</td><td>80-120 m (262.5-394 ft.)</td></tr><tr><td>ON</td><td>OFF</td><td>OFF</td><td>120-160 m (394-525 ft.)</td></tr><tr><td>OFF</td><td>ON</td><td>ON</td><td>160-200 m (525-656 ft.)</td></tr><tr><td>OFF</td><td>OFF</td><td>OFF</td><td>Signal is not sent</td></tr></table>	SW0-5	SW0-6	SW0-7	CABLE LENGTH	ON	ON	ON	0-40 m (0-131.2 ft.)	ON	ON	OFF	40-80 m (131.2-262.5 ft.)	ON	OFF	ON	80-120 m (262.5-394 ft.)	ON	OFF	OFF	120-160 m (394-525 ft.)	OFF	ON	ON	160-200 m (525-656 ft.)	OFF	OFF	OFF	Signal is not sent	
		SW0-5		SW0-6	SW0-7	CABLE LENGTH																										
	ON	ON		ON	0-40 m (0-131.2 ft.)																											
	ON	ON		OFF	40-80 m (131.2-262.5 ft.)																											
	ON	OFF	ON	80-120 m (262.5-394 ft.)																												
	ON	OFF	OFF	120-160 m (394-525 ft.)																												
	OFF	ON	ON	160-200 m (525-656 ft.)																												
	OFF	OFF	OFF	Signal is not sent																												
	6 <b>NOTE 7</b>	<div>ON</div>																														
		OFF																														
	7 <b>NOTE 7</b>	<div>ON</div>																														
		OFF																														
8	<div>OFF</div>	Not used																														

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SWITCH NAME	SWITCH NUMBER	SETTING POSITION	FUNCTION	CHECK																														
SW1 (Piano Key SW)  	1	<div>OFF</div>	Not used																															
	2	<div>OFF</div>	Not used																															
	3	<div>OFF</div>	Not used																															
	4	ON	AP No. 04-15																															
		OFF	AP No. 20-31																															
SW2 (Dip SW)  	1	ON	• Common channel signaling data transmission speed (For Digital Interface)																															
		OFF																																
	2	ON	<table><tr><th>TRANSMISSION SPEED</th><th>SW 2-1</th><th>SW 2-2</th><th>SW 2-3</th><th>SW 2-4</th><th>SW 2-5</th></tr><tr><td>48 Kbps <b>NOTE 6</b></td><td>ON</td><td>ON</td><td>OFF</td><td>OFF</td><td>ON</td></tr><tr><td>48 Kbps <b>NOTE 6</b></td><td>ON</td><td>ON</td><td>ON</td><td>OFF</td><td>ON</td></tr><tr><td>56 Kbps</td><td>ON</td><td>ON</td><td>OFF</td><td>ON</td><td>ON</td></tr><tr><td>64 Kbps</td><td>ON</td><td>ON</td><td>ON</td><td>ON</td><td>ON</td></tr></table>	TRANSMISSION SPEED	SW 2-1	SW 2-2	SW 2-3	SW 2-4	SW 2-5	48 Kbps <b>NOTE 6</b>	ON	ON	OFF	OFF	ON	48 Kbps <b>NOTE 6</b>	ON	ON	ON	OFF	ON	56 Kbps	ON	ON	OFF	ON	ON	64 Kbps	ON	ON	ON	ON	ON	
		TRANSMISSION SPEED	SW 2-1	SW 2-2	SW 2-3	SW 2-4	SW 2-5																											
	48 Kbps <b>NOTE 6</b>	ON	ON	OFF	OFF	ON																												
	48 Kbps <b>NOTE 6</b>	ON	ON	ON	OFF	ON																												
	56 Kbps	ON	ON	OFF	ON	ON																												
	64 Kbps	ON	ON	ON	ON	ON																												
	OFF																																	
	3	ON																																
		OFF																																
	4	ON																																
		OFF																																
	5	ON																																
		OFF																																
	6	<div>OFF</div>	Not used (Always set to OFF)																															
7	<div>OFF</div>	Not used (Always set to OFF)																																
8	<div>OFF</div>	Not used (Always set to OFF)																																

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SWITCH NAME	SWITCH NUMBER	SETTING POSITION	FUNCTION	CHECK
JPR0 (Jumper pin) 		UP	Neutral grounding on the receiving line is provided.	
		DOWN	Neutral grounding on the receiving line is not provided.	
JPR1 (Jumper pin) 		RIGHT	Line impedance: 100 Ω	
		LEFT	Line impedance: 110 Ω	
JPS (Jumper pin) 		UP	Neutral grounding on the transmitting line is provided.	
		DOWN	Neutral grounding on the transmitting line is not provided.	
MAS (Jumper pin) 		DOWN	Always set to DOWN	
AISS (Jumper pin) 		UP	AIS signal is sent out when make-busy or power on.	
		DOWN	AIS signal is not sent out when make-busy or power on.	
JP1 (Jumper pin) 		LEFT	Always set to LEFT	

The figure in the SWITCH NAME column and the position of  in the SETTING POSITION column indicate the standard setting of the switch. When the switch is not set as shown by the figure and , the setting of the switch varies with the system concerned.

**NOTE 1:** Set the groove on the switch to the desired position.

Continued on next page

**NOTE 2:** When the power is on, flip the MB switch to ON (UP position) before plugging/unplugging the circuit card.

**NOTE 3:** Set SW0-1 and SW0-2 as follows:

CONDITIONS	CCT0		CCT1		CCT2		.....		CCT7		REMARKS
	SW 0-1	SW 0-2	SW 0-1	SW 0-2	SW 0-1	SW 0-2			SW 0-1	SW 0-2	
When one CCT is provided.	ON	OFF	–	–	–	–			–	–	MP card will receive the clock signal from CCT0 at its PLO0 input.
When more than one CCT is provided.	ON	OFF	OFF	ON	OFF	OFF			OFF	OFF	MP card will receive the clock signal from CCT0 at its PLO0 input, under normal conditions. Should a clock failure occurs with CCT0, MP card will automatically switch to the PLO1 input which gets clock from CCT1.

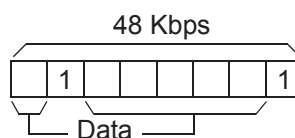
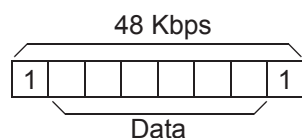
**NOTE 4:** When the PBX is a clock source office, set the SW0-1 and SW0-2 on all the CCT cards mounted in PIM0 to “OFF”.

**NOTE 5:** Mount the CCT card which receives a source clock signal into PIM0.

**NOTE 6:** The following two kinds of rate adaptation method are available in 48 Kbps data transmission. The rate adaptation method must be set to match the rate adaptation of clock source office.

• SW2-3: OFF

• SW2-3: ON



**NOTE 7:** This card must be reset after the SW0-3 to SW0-7 switch settings. Set the MB switch to UP and then DOWN.