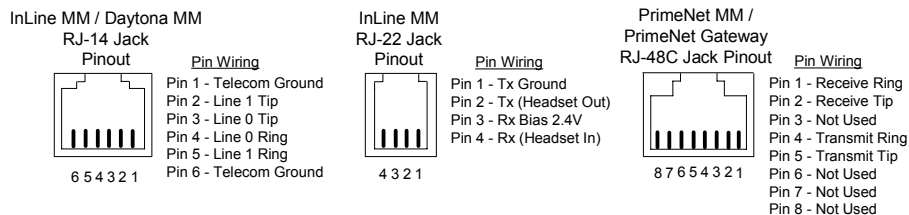


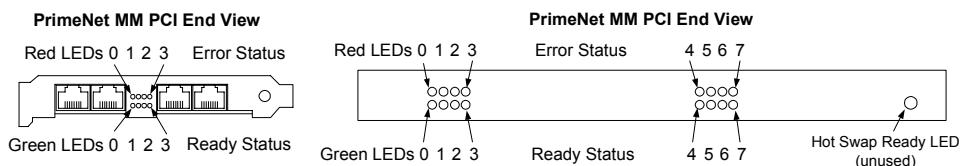
## Step 6 – Connect to Phone Equipment (continued)

- If connecting a PIKA card using a punch down block, refer to the diagrams below for details on wiring the connector pinouts.



**Note:** Custom cables terminated with RJ-48C connectors are included with all digital logging cards. Pins 4 and 5 on these cables are not connected to the RJ-48C jacks on the card.

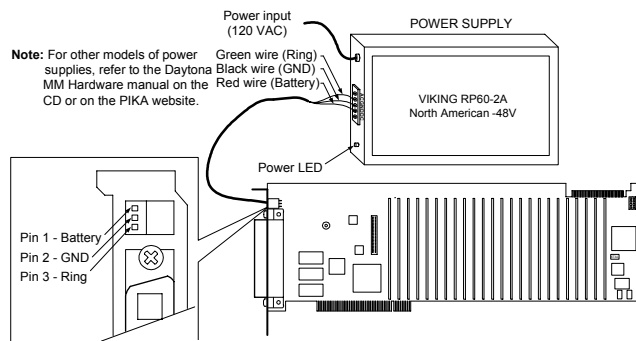
- For the **PrimeNet MM**, verify that each span is working by checking if the Error light (red LED) is turned off.



**Note:** The status LEDs behave differently for ISDN and CAS protocols. Refer to the Getting Started Guide in the MonteCarlo SDK for more details.

## Step 7 – Connect To Power Supply

- If using **Daytona MM** cards with **station lines**, connect a power supply to the card. Ensure that the proper voltages are connected to the power supply connector on the back of the card. Refer to the diagram below for details. **WARNING!** Make certain the power supply and PC are turned off before connecting.



For more detailed instructions, refer to the MonteCarlo or All on Host SDK documentation contained on the PIKA Software CD or on our web site.

**PIKA Technologies Inc.**  
535 Legget Drive, Suite 400  
Ottawa, Ontario, Canada  
K2K 3B8

Tel: +1 (613) 591-1555  
Fax: +1 (613) 591-9295



sales@pikatech.com | support@pikatech.com | <http://www.pikatechnologies.com>

# PIKA Quick Start Guide



**Thank you for choosing PIKA Technologies!** This guide describes the basic steps required to install, configure, and test **InLine MM**, **Daytona MM**, **PrimeNet MM**, and **PrimeNet Gateway** cards. For more detailed instructions, refer to the online documentation contained on the PIKA Software CD for the MonteCarlo or All on Host SDK, or visit our website at:

<http://www.pikatechnologies.com/>

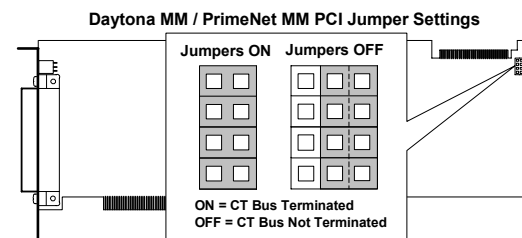
## Step 1 – Install Software

- Uninstall any previous versions of the MonteCarlo or All on Host SDK.
  - Insert the PIKA Software CD in the CD-ROM drive or download an SDK from our website.
  - Install the MonteCarlo or All on Host SDK from the CD, or use the downloaded setup program.
- Note:** Linux users may need to mount the CD before accessing the files. When installing a PIKA SDK, the distribution and kernel version of the software must match the system.
- When finished, shut down the PC to install the hardware.

**Warning!** When installing a PIKA card, you must be grounded with an **anti-static wrist strap**.

## Step 2 – Configure Hardware

- If connecting multiple **Daytona MM** or **PrimeNet MM** PCI cards together across the CT Bus, set the jumpers for the last cards on each end of the chain to 'terminated' (see Step 4 diagram for an example of the 'last cards' in the chain). Set all other cards to 'not terminated'. Refer to the diagram to the right for details.



**Note:** The InLine MM and PrimeNet Gateway do not support CT Bus connections.

## Step 3 – Install Hardware

### For PCI cards:

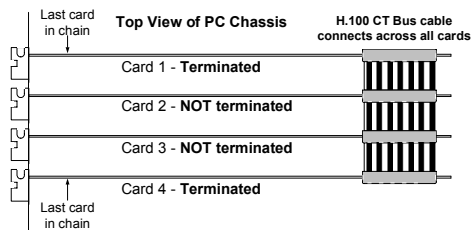
- Turn off the PC and remove the cover.
- Remove the back plate from an empty PCI slot
- Firmly press the PIKA card into the slot.
- Anchor the card to the PC chassis with a screw.
- For connecting multiple cards across the CT Bus, refer to the diagram in Step 4.
- Replace the cover on the PC and turn it on.

### For cPCI cards:

- Turn off the PC.
- Firmly slide the first half of the card into an empty cPCI slot on the front of the PC chassis.
- Use the locking clamps to anchor the card to the PC chassis.
- Firmly slide the second half of the card into the corresponding cPCI slot on the back of the PC chassis.
- Use the locking clamps and mounting screw to anchor the card to the rear of the PC chassis.
- Turn on the PC.

### Step 4 – Connect CT Bus Cables (optional)

- If connecting multiple **Daytona MM** or **PrimeNet MM PCI** cards together across the CT Bus in a **PCI chassis**, the cards must be connected using an H.100 cable. Refer to the diagram to the right for details. A cPCI chassis must have a telephony back plane instead of using CT Bus cables.



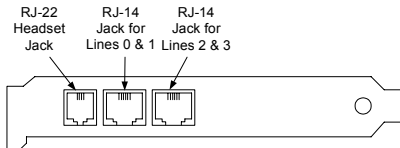
**Note:** The last card on each end of the chain **must** be terminated (refer to Step 2). In addition, if connecting to third-party cards, a CT Bus adapter may be required.

### Step 5 – Detect and Test Hardware (for MonteCarlo SDK only)

- Launch the PIKA Setup utility.
- Select the Actions→Detect menu item or click the Detect icon.
- Select the File→Save menu item and then close PIKA Setup.
- Ensure all the installed cards appear in the list. If a card or DSPs do not appear, restart the PC. If the card still does not appear in the list, please contact PIKA Customer Care.
- Launch the PIKA Test utility.
- Each board will be initialized and then started. Ensure that all boards appear in the list and each return status is 'OK'. If a board does not appear in the list or the status is not 'OK', reboot the PC and re-detect the cards in the system. If the problem is not corrected, please contact PIKA Customer Care.

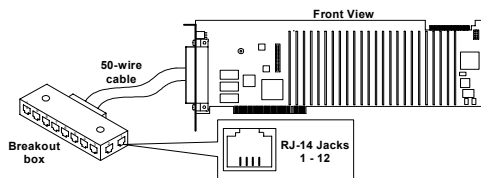
### Step 6 – Connect To Phone Equipment

- If using **InLine MM** cards, plug a cable into each RJ-14 jack on the card. A jack splitter is required to access each port separately and can be purchased from PIKA. If a headset is used, plug a cable into the RJ-22 jack. Refer to the diagram on the last page for details on jack pinouts.



**Note:** When the headset is in use, the loop start line #1 is not available for use.

- If using **Daytona MM** cards with a **breakout box**, attach the provided cable to the 50-pin Amphenol connector on the back of the card.



- Connect the other end of the cable to a breakout box. This allows standard RJ-14 telephone jacks to be connected to the card.

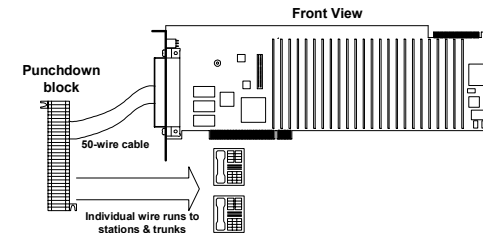
Each RJ-14 jack provides connections to 2 separate ports. A jack splitter is required to access each port separately and can be purchased from PIKA. Refer to the diagram on the last page for details on jack pinouts.

Breakout Box Port	Line Number	ack Pin	Phone Line Color Code	Associated Line Interface							
				12L	24L	12P	24P	3P4L	12P12L	16P8L	
1	1	2,3	Green, Red	LS0	LS0	ST0	ST0	LS0	LS0	LS0	LS0
	2	1,4	Yellow, Black	LS1	LS1	ST1	ST1	LS1	LS1	LS1	LS1
2	3	2,3	Green, Red	LS2	LS2	ST2	ST2	LS2	LS2	LS2	LS2
	4	1,4	Yellow, Black	LS3	LS3	ST3	ST3	LS3	LS3	LS3	LS3
3	5	2,3	Green, Red	LS4	LS4	ST4	ST4	LS4	LS4	LS4	LS4
	6	1,4	Yellow, Black	LS5	LS5	ST5	ST5	LS5	LS5	LS5	LS5
4	7	2,3	Green, Red	LS6	LS6	ST6	ST6	LS6	LS6	LS6	LS6
	8	1,4	Yellow, Black	LS7	LS7	ST7	ST7	LS7	LS7	LS7	LS7
5	9	2,3	Green, Red	LS8	LS8	ST8	ST8	LS8	LS8	LS8	LS8
	10	1,4	Yellow, Black	LS9	LS9	ST9	ST9	LS9	LS9	LS9	LS9
6	11	2,3	Green, Red	LS10	LS10	ST10	ST10	LS10	LS10	LS10	LS10
	12	1,4	Yellow, Black	LS11	LS11	ST11	ST11	LS11	LS11	LS11	LS11
7	13	2,3	Green, Red	LS12	LS12	ST12	ST12	LS12	LS12	LS12	LS12
	14	1,4	Yellow, Black	LS13	LS13	ST13	ST13	LS13	LS13	LS13	LS13
8	15	2,3	Green, Red	LS14	LS14	ST14	ST14	LS14	LS14	LS14	LS14
	16	1,4	Yellow, Black	LS15	LS15	ST15	ST15	LS15	LS15	LS15	LS15
9	17	2,3	Green, Red	LS16	LS16	ST16	ST16	LS16	LS16	LS16	LS16
	18	1,4	Yellow, Black	LS17	LS17	ST17	ST17	LS17	LS17	LS17	LS17
10	19	2,3	Green, Red	LS18	LS18	ST18	ST18	LS18	LS18	LS18	LS18
	20	1,4	Yellow, Black	LS19	LS19	ST19	ST19	LS19	LS19	LS19	LS19
11	21	2,3	Green, Red	LS20	LS20	ST20	ST20	LS20	LS20	LS20	LS20
	22	1,4	Yellow, Black	LS21	LS21	ST21	ST21	LS21	LS21	LS21	LS21
12	23	2,3	Green, Red	LS22	LS22	ST22	ST22	LS22	LS22	LS22	LS22
	24	1,4	Yellow, Black	LS23	LS23	ST23	ST23	LS23	LS23	LS23	LS23

#### Legend

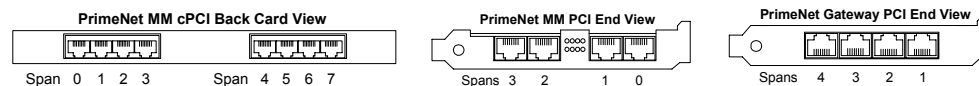
LS – Loop Start line  
ST – Station line

- If using **Daytona MM** cards with a **punch down block**, attach a 50-wire cable to the 50-pin Amphenol connector on the back of the card.
- Using a punch down tool, connect the unterminated wires on the other end of the cable to a punch down block. Each line must be cross connected to a loop start trunk or analog phone. Refer to the diagram and wiring chart to the right for details.

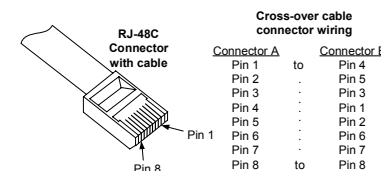


Pin #	Signal Name	Wire Colors (solid/strip)	Pin #	Signal Name	Wire Colors (solid/strip)	12L	24L	12P	24P	3P4L	12P12L	16P8L
1	TIP 0	white / blue	26	RING 0	blue / white	LS0	LS0	ST0	ST0	LS0	LS0	LS0
2	TIP 1	white / orange	27	RING 1	orange / white	LS1	LS1	ST1	ST1	LS1	LS1	LS1
3	TIP 2	white / green	28	RING 2	green / white	LS2	LS2	ST2	ST2	LS2	LS2	LS2
4	TIP 3	white / brown	29	RING 3	brown / white	LS3	LS3	ST3	ST3	LS3	LS3	LS3
5	TIP 4	white / gray	30	RING 4	gray / white	LS4	LS4	ST4	ST4	LS4	LS4	LS4
6	TIP 5	red / blue	31	RING 5	blue / red	LS5	LS5	ST5	ST5	LS5	LS5	LS5
7	TIP 6	red / orange	32	RING 6	orange / red	LS6	LS6	ST6	ST6	LS6	LS6	LS6
8	TIP 7	red / green	33	RING 7	green / red	LS7	LS7	ST7	ST7	LS7	LS7	LS7
9	TIP 8	red / brown	34	RING 8	brown / red	LS8	LS8	ST8	ST8	LS8	LS8	LS8
10	TIP 9	red / gray	35	RING 9	gray / red	LS9	LS9	ST9	ST9	LS9	LS9	LS9
11	TIP 10	black / blue	36	RING 10	blue / black	LS10	LS10	ST10	ST10	LS10	LS10	LS10
12	TIP 11	black / orange	37	RING 11	orange / black	LS11	LS11	ST11	ST11	LS11	LS11	LS11
13	TIP 12	black / green	38	RING 12	green / black	LS12	LS12	ST12	ST12	LS12	LS12	LS12
14	TIP 13	black / brown	39	RING 13	brown / black	LS13	LS13	ST13	ST13	LS13	LS13	LS13
15	TIP 14	black / gray	40	RING 14	gray / black	LS14	LS14	ST14	ST14	LS14	LS14	LS14
16	TIP 15	yellow / blue	41	RING 15	blue / yellow	LS15	LS15	ST15	ST15	LS15	LS15	LS15
17	TIP 16	yellow / orange	42	RING 16	orange / yellow	LS16	LS16	ST16	ST16	LS16	LS16	LS16
18	TIP 17	yellow / green	43	RING 17	green / yellow	LS17	LS17	ST17	ST17	LS17	LS17	LS17
19	TIP 18	yellow / brown	44	RING 18	brown / yellow	LS18	LS18	ST18	ST18	LS18	LS18	LS18
20	TIP 19	yellow / gray	45	RING 19	gray / yellow	LS19	LS19	ST19	ST19	LS19	LS19	LS19
21	TIP 20	violet / blue	46	RING 20	blue / violet	LS20	LS20	ST20	ST20	LS20	LS20	LS20
22	TIP 21	violet / orange	47	RING 21	orange / violet	LS21	LS21	ST21	ST21	LS21	LS21	LS21
23	TIP 22	violet / green	48	RING 22	green / violet	LS22	LS22	ST22	ST22	LS22	LS22	LS22
24	TIP 23	violet / brown	49	RING 23	brown / violet	LS23	LS23	ST23	ST23	LS23	LS23	LS23
25	S-GND	violet / gray	50	S-BAT	gray / violet							

- If using **PrimeNet MM** or **PrimeNet Gateway** cards, connect each RJ-48C jack on the back of the card to the Telco using a straight-through cable or to another digital line card using a cross-over cable. Refer to the diagram on the last page for details on jack pinouts.



If connecting multiple **PrimeNet MM** or **PrimeNet Gateway** cards in a **back-to-back** configuration for testing purposes, a cross-over cable must be used. To make either cable, refer to the diagram to the right for details on wiring the connector pinouts.



- If using **PrimeNet MM DL (digital logging)** cards, connect each pair of cables to the corresponding logging channel RJ-48C jacks on the card. For each digital logging channel, two cables are included with the card – one for each wire pair to be logged on the digital span. The unterminated end must be punched down in parallel with the Rx or Tx wire pairs of the digital line.

