



APPLICATION Note

TELECOM SOLUTIONS FOR THE 21ST CENTURY

**Using the AES-2000
with Multiple C-3000
Controllers**

May 8, 2014

Expand Capacity of the AES-2000/C-3000 Combination from 96 Tenants Up to 288 Tenants



Model AES-2000

A bank of eight **C-3000**'s has a 96 tenant capacity. By using a **C-1000B**, three groups of eight **C-3000**'s can be combined, expanding tenant capacity up to 288.



Model C-3000



Model C-1000B

<http://www.vikingelectronics.com>

Phone...715.386.8861

Installation

The following steps are to be used in conjunction with the diagram on the following page (page 2).

Step 1.	Connect a pair of wires from the AES-2000 's C-3000 screw terminals to the C-1000B 's LINE OUT TO PHONES screw terminals.
Step 2.	To connect the first group of eight C-3000 s: Connect the C-1000B 's LINE IN screw terminals to the Master 1 C-3000 's ENTRY 1 screw terminals.
Step 3.	To connect the second group of eight C-3000 s: Connect the C-1000B 's DOOR BOX 1 terminals to Master 2 C-3000 's ENTRY 1 screw terminals.
Step 4.	To connect the third group of eight C-3000 s: Connect the C-1000B 's DOOR BOX 2 terminals to Master 3 C-3000 's ENTRY 1 screw terminals.
Step 5.	Set DIP switch 3 of the C-1000B to the OFF position and set Talk Battery switch to OFF.
Step 6.	A telephone line can be connected to the AES-2000 's CO screw terminals for remote AES-2000 programming or calling tenants that do not have phone service.

Note: Connect the group of eight **C-3000**s in a Master/Slave configuration as shown in the **C-3000 Technical Practice**.

Programming

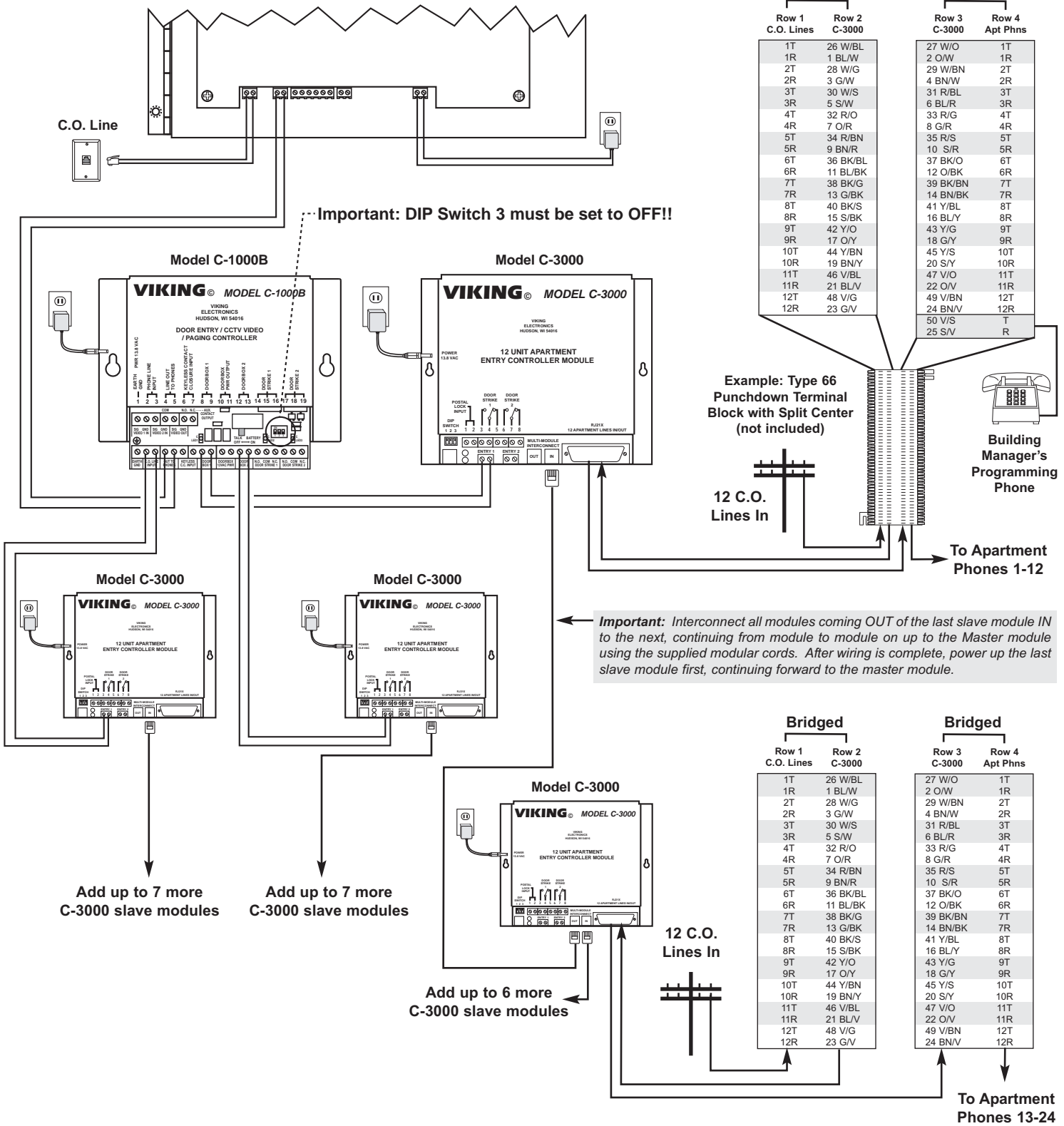
For the **AES-2000** and the **C-3000** to work in harmony, program them to have identical phone entry Call Times and Ring Counts. Failure to do so will result in unexpected disconnect. The **AES-2000** Call Time and Ring Count fields are found in the Building Selection's "Setup" pull down menu, under "Parameters." See the **C-3000 Technical Practice, Programming section B** for programming the Call Time and Ring Count on the **C-3000**s.

When programming the **AES-2000**'s Apartment Selection screen, a "**C**" in entered before the tenant's phone number to access the first **C-3000** group. The second and third **C-3000** groups require a "**C**" and a "**#1**" or a "**#2**" before the tenant's phone number.

For Example: C01 - C96 for group one, C#1,01 - C#1,96 for group two, C#2,01 - C#2,96 for group three.

Important: The comma shown in the dialing string is for a 2 second pause, which is required for the **C-1000A** to switch to group 2 or 3.

Rear View of the AES-2000



Bridged		Bridged	
Row 1 C.O. Lines	Row 2 C-3000	Row 3 C-3000	Row 4 Apt Phns
1T	26 W/BL	27 W/O	1T
1R	1 BL/W	2 O/W	1R
2T	28 W/G	29 W/BN	2T
2R	3 G/W	4 BN/W	2R
3T	30 W/S	31 R/BL	3T
3R	5 S/W	6 BL/R	3R
4T	32 R/O	33 R/G	4T
4R	7 O/R	8 G/R	4R
5T	34 R/BN	35 R/S	5T
5R	9 BN/R	10 S/R	5R
6T	36 BK/BL	37 BK/O	6T
6R	11 BL/BK	12 O/BK	6R
7T	38 BK/G	39 BK/BN	7T
7R	13 G/BK	14 BN/BK	7R
8T	40 BK/S	41 Y/BL	8T
8R	15 S/BK	16 BL/Y	8R
9T	42 Y/O	43 Y/G	9T
9R	17 O/Y	18 G/Y	9R
10T	44 Y/BN	45 Y/S	10T
10R	19 BN/Y	20 S/Y	10R
11T	46 V/BL	47 V/O	11T
11R	21 BL/V	22 O/V	11R
12T	48 V/G	49 V/BN	12T
12R	23 G/V	24 BN/V	12R
		50 V/S	T
		25 S/V	R

Example: Type 66
Punchdown Terminal
Block with Split Center
(not included)



Building
Manager's
Programming
Phone

Add up to 7 more
C-3000 slave modules

Add up to 7 more
C-3000 slave modules

Add up to 6 more
C-3000 slave modules

Bridged		Bridged	
Row 1 C.O. Lines	Row 2 C-3000	Row 3 C-3000	Row 4 Apt Phns
1T	26 W/BL	27 W/O	1T
1R	1 BL/W	2 O/W	1R
2T	28 W/G	29 W/BN	2T
2R	3 G/W	4 BN/W	2R
3T	30 W/S	31 R/BL	3T
3R	5 S/W	6 BL/R	3R
4T	32 R/O	33 R/G	4T
4R	7 O/R	8 G/R	4R
5T	34 R/BN	35 R/S	5T
5R	9 BN/R	10 S/R	5R
6T	36 BK/BL	37 BK/O	6T
6R	11 BL/BK	12 O/BK	6R
7T	38 BK/G	39 BK/BN	7T
7R	13 G/BK	14 BN/BK	7R
8T	40 BK/S	41 Y/BL	8T
8R	15 S/BK	16 BL/Y	8R
9T	42 Y/O	43 Y/G	9T
9R	17 O/Y	18 G/Y	9R
10T	44 Y/BN	45 Y/S	10T
10R	19 BN/Y	20 S/Y	10R
11T	46 V/BL	47 V/O	11T
11R	21 BL/V	22 O/V	11R
12T	48 V/G	49 V/BN	12T
12R	23 G/V	24 BN/V	12R

To Apartment
Phones 13-24

Product Support Line...715.386.8666

Fax Back Line...715.386.4345

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