

JBM Electronics

Gateway Model C21

Thank you for purchasing a Gateway C21. The C21 connects a sdlc or asynchronous modem to a broadband (Ethernet) network.

UNPACKING INSTRUCTIONS

1. Unpack the C21
2. Verify the following components are enclosed (*Figure A*)

Figure A Package Contents

Power Supply
(United States)



(Front - Modem)



(Back - Ethernet)

Note: Non-US power supplies require customer-supplied power cord to connect power supply to AC power outlet.

3. If any items are missing, please contact **JBM** at **1-800-489-7781**.

CABLING (*user-supplied*)

RJ-11 Modem Cable (*Table A*)

This table lists the required pins used in the Modem cable used to connect the Gateways to the analog device or network. The pins should be connected from one RJ-11 connector to the other without transpositions or other wiring changes.

TABLE A - RJ-11 MODEM CABLE	
PIN	DESCRIPTION
2	UNUSED
3	RING
4	TIP
5	UNUSED

Ethernet Cables *(Tables B&C)*

The tables below list the required pins used in the Straight *(Table B)* and Crossed-wired *(Table C)* 10BaseT cables.

TABLE B - STRAIGHT 10BASET	
PIN	DESCRIPTION
1	TD+
2	TD-
3	RD+
4	-
5	-
6	RD-
7	-
8	-
Used for HUB or Switch	

TABLE C - CROSSED 10BASET	
CONNECTOR A	CONNECTOR B
1	3
2	6
3	1
-	-
-	-
6	2
-	-
-	-
Used for direct PC connection	

CONFIGURATION

1. Collect information about the configuration setup.
2. Complete Configuration Setup Worksheets. Worksheets located at: <http://jbmelectronics.com/tech/workdir.htm>
3. Attach the power supply connector to C21 and connect power supply plug to an AC power outlet.
4. Verify Power (red) LED is lit to indicate that the unit is receiving power.
5. Attach the Ethernet cable to the RJ-45 jack of the C21 *(back)*. The other end of the Ethernet cable can be attached to either:
 - *Hub or switch, using a straight Ethernet cable. (Table B)*
 - *Host PC directly, using an Ethernet cross-wired cable. (Table C)*
6. Verify your PC is connected on the same segment as the C21 and that the connection between the PC and C21 is not restricted by the hub or switch. The C21's default IP address is 192.168.0.35.
7. Launch a web browser.
8. Access the Embedded Web Server by entering the C21's default IP address (192.168.0.35) into the Address Bar as shown: <http://192.168.0.35>
 - *Between configuring units with the same I.P. run the following command in MS Dos or Command Prompt: `arp -d *`*
 - *Figure B (Page 3) will be displayed when the connection is successfully established. This Figure lists all major options defined in the C21.*
9. Click the *Configure* tab in the Information Page *(Figure B)* to begin.

Note: The C21 ships without a password.

Figure B – Information Page



- Open any configuration field setting in the Configuration Page (Figure C) and view or modify network configuration settings, payment terminal interface settings, host side interface settings, and password administration for the C21.

Figure C – Configuration Page



- Configure the C21 using the information entered on setup worksheets. Each configuration page has a *Submit* tab that holds the information changes and takes you to the previous screen. To save changes you must select the *Submit* Tab before continuing to any other page. To save the IP change you must select the *Save Changes and Reboot* Tab. *Changing the IP will lose your current connection if the change is out of range on your Network settings on your local PC.*
- Carefully double-check your entries before submitting.
- Close Web Browser
- Attach modem cable to the C21 (*front*).
- Send a test transaction.

HARDWARE LED STATUS		
Power:	RED - Power connection status	
	<i>ON</i>	Power is being received by the C21
	<i>OFF</i>	Power is not being received by the C21
Ethernet:	Green – LAN connection status	
	<i>ON</i>	C21 is connected to LAN
	<i>OFF</i>	C21 is not connected to the LAN, or the C21 is in the process of being reset
	Yellow – Data communications activity status	
	<i>ON-OFF-ON (Flickering)</i>	Packets are being seen by the C21
	<i>STEADY</i>	No data activity is being seen by the C21
Modem RJ-11	Yellow – Status of the C21 modem connection to the POS terminal modem	
	<i>OFF</i>	No communication between the C21 and the POS terminal
	<i>ON</i>	A dial up sequence from the POS terminal has started, And modem-to-modem negotiation is in progress
		Negotiations are completed, and a modem-to-modem connection has been established
	Green – Status of the C21 Ethernet interface with the IP server	
	<i>OFF</i>	No C21 communication with a server
	<i>ON</i>	C21 is establishing a TCP/IP or a SSL + TCP/IP connection to a server
		C21 has established a TCP/IP connection to a server

SPECIFICATIONS		
LAN Port:	Ethernet:	One 10BaseT
	Connector:	Female RJ-45 connector
Modem Port:	Baud Rate:	1200-14400
	Emulation:	async or slcd
	Modem type:	V.22/V.22bis, V.32/V.32bis, Bell 202
	Connector:	Female RJ-11
Management:	IP Protocol	Embedded web server
LED Indicators:	LAN Port:	Link, Active
	Modem Port:	Transmit, Receive
	Power:	On/Off State
Power:	24–32 VDC (External) 120 VAC, 50/60 Hz	
Physical:	Size:	3.75” W x 1.75” H x 5” L
	Weight:	4 ounces
Warranty:	1 Year Parts and Labor	

For further information, please refer to the following:

- FCC Information: <http://www.jbmelectronics.com/general/fcc.htm>
- Warranty information: <http://www.jbmelectronics.com/general/warren.htm>