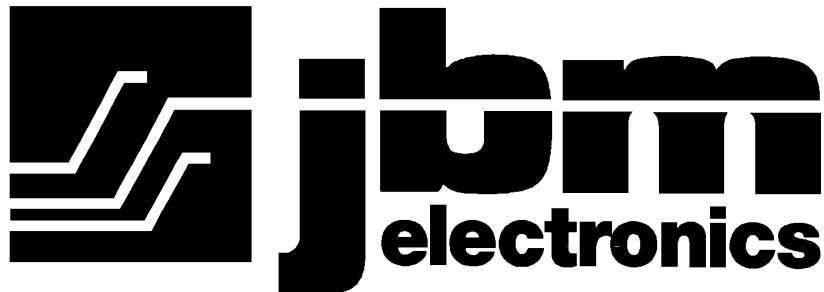


# Cables

-

**C100 through C114**



File Name: cable\_c100\_c114.doc  
Revision Date: January 27, 2006  
Revision Level: 1.0

## **FCC Notice**

Warning: This equipment generates, uses, and can radiate radio frequency energy; and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case, the user, at his own expense, will be required to take whatever measures may be required to correct the interference.

The Gateways are listed by a Nationally Recognized Testing Laboratory.

All copyrights are held by their respective owners.

### **NOTICE:**

Specifications described in this manual are  
subject to change without notice.

Gateway 40 - 940 Cables  
© Copyright 2004 by JBM Electronics Co.

For further information, contact:

JBM Electronics Co.  
4645 LaGuardia  
St. Louis, MO 63134

Phone: (314) 426-7781  
Fax: (314) 426-0007

**Internet: <http://www.jbmelectronics.com>**

**C100 – C114**

<b>Port</b>	<b>Cable Description</b>	<b>Cable Order Number</b>	<b>Table</b>
<b>Serial</b>			
DB-25F RS232C DCE sync <i>(HPC)</i>	25M to 25F Straight 25foot	C/25SMF-25'	Pg. 3
	25M to 25F Straight 6foot	C/25SMF-6'	Pg. 3
	25M to 25M Straight 25foot	C/25SMM-25'	Pg. 3
	25M to 25M Straight 6foot	C/25SMM-6'	Pg. 3
	25M to 25F DTE Adapter	G50 Adapter	Pg. 4
DE-9M RS232 DTE async <i>(Comport)</i>	9F to 9M Straight 6foot	C/9SFM-6'	Pg. 5
	9F to 9M DCE Cable 6foot	C/9SF-9M-DCE-6'	Pg. 5
	9F to 25M DCE Cable 6foot	C/9SF-25M-DCE-6'	Pg. 6
DE-9F LMI DCE async <i>(Console)</i>	9M to 9F Straight 6foot	C/9SMF6'	Pg. 6
<b>LAN</b>			
RJ-45 Ethernet/s <i>110-114 has two Ethernets Eth0 straight Eth1 crossed</i>	RJ-45 Straight	N/A	Pg. 7
	RJ-45 Crossed	N/A	Pg. 7
RJ-45 Crossed Ethernet/s <i>110-114 has two Ethernets Eth0 straight Eth1 crossed</i>	RJ-45 Straight	N/A	Pg. 7
	RJ-45 Crossed	N/A	Pg. 7
<b>Modem</b>			
RJ-11 56K async	RJ-11 Straight	N/A	Pg. 8
RJ-11 Dial-Tone async	RJ-11 Straight	N/A	Pg. 8

**25F to 25M/F Straight (DCE)**

This table lists the RS-232C pins used in HPC Port. The pins should be connected from one connector to the other without transpositions or other wiring changes.

25-PIN RS-232C DCE PORT			
PIN	INBOUND	OUTBOUND	DESCRIPTION
1			Frame Ground
2	*		Transmit Data
3		*	Receive Data
4	*		Request to Send
5		*	Clear to Send
6		*	Data Set Ready
7			Signal Ground
8		*	Data Carrier Detect
15		*	Transmit Clock
17		*	Receive Clock
20	*		Data Terminal Ready
Multi-Protocol Port (HPC)			

**Units Supported**

- C102
- C112

JBM Electronics Part Numbers:

25M to 25F Straight 25foot = **C/25SMF-25'**

25M to 25F Straight 6foot = **C/25SMF-6'**

25M to 25M Straight 25foot = **C/25SMM-25'**

25M to 25M Straight 6foot = **C/25SMM-6'**

### G50 Adapter (DTE)

This table lists the required RS-232C wiring required to provide a DTE interface for a Gateway HPC Port. The pins should be connected from one connector to the other using the transpositions indicated.

GW50 ADAPTER DTE		
25 MALE PIN	DIRECTION	25 FEMALE PIN
1	Ground	1
2	←	3
3	→	2
4	←	8
5	→	20
7	Ground	7
8	→	4
9	Not applicable	9
10	Not applicable	10
12	Not applicable	12
13	Not applicable	13
18	←	6
19	Not applicable	19
20	←	5
21	Not applicable	21
22	←	15
23	←	17
24	Not applicable	24
25	Not applicable	25
Convert to DTE Multi-Protocol Port		

### Units Supported

- C102
- C112

JBM Electronics Part Number: **G50 Adapter**

**9F to 9M Straight (DTE)**

This table lists the RS-232 pins used in the Gateway Comm. Port. The pins should be connected from one connector to the other without transpositions or other wiring changes.

<b>9-Pin Male DTE RS-232 Port</b>			
<b>PIN</b>	<b>INBOUND</b>	<b>OUTBOUND</b>	<b>DESCRIPTION</b>
1	*		Data Carrier Detect
2	*		Receive Data
3		*	Transmit Data
4		*	Data Terminal Ready
5			Signal Ground
6	*		Data Set Ready
7		*	Request To Send
8	*		Clear To Send
9	*		Ring Indicator
Connects to an asynchronous device such as a modem			

**Units Supported**

- C100 - C114

JBM Electronics Part Number: **C/9SFM-6'**

**9F to 9M (DCE)**

This table lists the required RS-232 wiring required to provide a DCE interface for a Gateway Comm. Port. The pins should be connected from one connector to the other using the transpositions indicated.

<b>9-Pin Female to 9-Pin Male</b>		
<b>9 Female P in</b>	<b>DIRECTION</b>	<b>9 Male Pin</b>
1 tied to 6	←	4
2	←	3
3	→	2
4	→	6 tied to 8
5	GND	5
-	-	-
7	→	1
8	←	7
-	-	-
<i>Convert to DCE Comm. Port</i>		

**Units Supported**

- C100 – C114

JBM Electronics Part Number: **C/9SF-9M-DCE-6'**

**9F to 25M (DCE)**

This table lists the required RS-232 wiring required to provide a DCE interface for a Gateway Comm. Port. The pins should be connected from one connector to the other using the transpositions indicated.

9-PIN FEMALE TO 25-PIN MALE		
9 FEMALE PIN	DIRECTION	25 FEMALE PIN
1 tied to 6	←	20
2	←	2
3	→	3
4	→	5 tied to 6
5	GND	7
-	-	-
7	→	8
8	←	4
-	-	-

**Units Supported**

- C100 – C114

JBM Electronics Part Number: **C/9SF-25M-DCE-6'**

**9M to 9F Straight (DCE)**

This table lists the RS-232 pins used in the Gateway Console Port. The pins should be connected from one connector to the other without transpositions or other wiring changes.

9-PIN FEMALE DCE CONSOLE (LMI) PORT			
PIN	INBOUND	OUTBOUND	DESCRIPTION
1		*	Data Carrier Detect
2		*	Receive Data
3	*		Transmit Data
4	*		Data Terminal Ready
5			Signal Ground
6		*	Data Set Ready
7	*		Request To Send
8		*	Clear To Send
9		*	Ring Indicator
Console connection to PC ( <i>Back</i> )			

**Units Supported**

- C100 – C114

JBM Electronics Part Number: **C/9SMF6'**

## RJ-45 Straight

This table lists the Ethernet pins used in the Ethernet Port ETH0. For a straight-wired connection the pins should be connected from one connector to the other without transpositions or other wiring changes.

<b>TABLE C STRAIGHT 10/100BASET</b>	
<b>PIN</b>	<b>DESCRIPTION</b>
1	TD+
2	TD-
3	RD+
4	-
5	-
6	RD-
7	-
8	-
Used for HUB or Switch	

### Units Supported

- C100 – C114

JBM Electronics Part Number: N/A

## RJ-45 Crossed

This table lists the required Crossed-Wired Ethernet wiring required to provide cable connection to the Gateway and a local PC. The pins should be connected from one connector to the other using the transpositions indicated.

<b>TABLE D CROSSED 10/00BASET</b>	
<b>CONNECTOR A</b>	<b>CONNECTOR B</b>
1	3
2	6
3	1
-	-
-	-
6	2
-	-
-	-
Used for direct PC connection	

### Units Supported

- C100 – C114

JBM Electronics Part Number: N/A

## RJ-11 Straight

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

RJ-11 MODEM CABLE	
PIN	DESCRIPTION
1	Unused
2	Tip
4	Ring
5	Unused
Used for async modem connection	

### Units Supported

- C101
- C104
- C111
- C114

JBM Electronics Part Number: N/A