

# MID:COM

## E:COUNT MCR-05 AND E:COUNT LT MCR-09 COMPATIBLE PRINTERS

PRINTER MODEL	ECOUNT SETTING	MIDCOM BLUE PART#	-- ECOUNT -----			MIDCOM PART #	POWER CABLE
			LOGO PRINT	BLACK MARK	VERSION		
<b>Thermal Printers Sold by MIDCOM</b>							
EPSON TM-88	THERML, TM-88	114-0334	Y+		E173F	114-0089	702-0071
CITIZEN CT-S601	THERML, CTS651		Y+		E173F	114-0089	702-0071
CITIZEN CT-S651**	THERML, CTS651	114-0317	Y+		E173F	114-0089	702-0071
CUSTOM Q3X	THERML, Q3	114-0414	Y+	Y	E180	114-0273	702-0071
STAR FV-P10	THERML, TSP700	114-0416	Y+	Y	E180	114-0089	702-0071
STAR TSP700	THERML, TSP700		Y+	Y	E180	114-0089	702-0071
<b>No Longer Available but Supported Thermal Printers</b>							
CITIZEN CT-S310	THERML, CTS310		Y+		E173F	114-0089	702-0071
CITIZEN CT-S310II	THERML, CTS310		Y+		E173F	114-0089	702-0071
MIDCOM/AXIOHM	THERML				E104	114-0271	702-0071
FUJITSU FP-460	THERML, FP460	114-0333	Y+	Y	E170E	114-0089	702-0071
<b>Other Supported Thermal Printers</b>							
CITIZEN CT-S4000	THERML				E173F	114-0089	702-0071
COGNITIVE BLASTER	BLASTR, BLASTB				N, Y	170/178	114-0100# VENDOR^
DATAMAX M4TE	DMM4TE				E178F	114-0273++	702-0123
ZEBRA RW-420	ZEBRA, RW420B		Y		N, Y	166/178	702-0116! VENDOR^
PRINTEK RT-43	RT43BT		Y		E178F	114-0273##	VENDOR^
<b>Slip Impact Printers Sold by MIDCOM</b>							
EPSON TM-295	TM-295	706-0021			E104	114-0089	702-0071
MIDCOM PRINTER	MIDCOM	900-0012			E104	114-0273	702-0075!!
<b>Other Supported Impact Roll Printers</b>							
EPSON TM-U220	TM-220				E168	114-0089^^	702-0071

\* In Development

\*\* MID:COM Standard Thermal Printer, E180 September 2015

+ Requires Additional Logo Power Supply Part # 903-0077

++ Requires Datamax Cable: DB9-FRTANGRJ127NONCOIL \*and\* a M/F Null Modem Adapter

^ Refer to the vendor for the required cable

^^ Epson TM-220 must be in XON/XOFF, set DIP1 SW3 to ON

! Zebra RW-420 needs DSR high to be on, Pin4/DE9 is DTR->DSR on Pin7/10\_pin\_connector and is also connected to +12V on PCM

!! Connect to +12V on PCM

# As long as neither the PCM nor the Blaster are putting out power the standard 114-0100 serial cable is safe to use, otherwise the 702-0091 cable that connects only pins 2,3,5 (Tx, Rx, & Ground) is required

## Requires FieldPro Serial Cable RJ45 to DB9 #91849 \*and\* a M/F Null Modem Adapter

### ECOUNT & Printer Standard Communication Settings

Tx, Rx, Ground Only, Commonly Referred to as "3-Wire RS232" 9600,N,8,1 = 9600 Baud, No Parity, 8 Data Bits, 1 Stop Bit No Handshaking, the handshake lines are not connected

**NOTE:** The THERML printer setting is generic and works with most printers that support the Epson ESC/POS command set. The specific printer settings are required when printing logs or using a Black Mark Sensor. Epson wrote the book on open ESC/POS commands, most printers support that command set and if so, then every application that supports the ESC/POS commands also supports that printer out of the box.

Device	Port	Cable	Part#
Handheld/Laptop Serial Port (DTE)	PCM-Serial1 (DCE)	Straight 9F/9M	114-0100
Handheld/Laptop Serial Port (DTE)	PCM-Printer (DCE)	Straight 9F/9F	114-0271
ComLink (DCE)	PCM-Serial2-AUX (DTE)	Straight 9F/9M	114-0100
GPS (DCE)	PCM-Serial2-AUX (DTE)	Custom	*
Blaster (Cognitive) (DTE)	PCM-Printer (DCE)	Custom Straight 3-Wire 9F/9M	<b>702-0091 ++</b>
Blaster (Cognitive) (DTE)	8000-Printer (DTE)	Custom NULL 3-Wire 9F/9M	<b>702-0089 +</b>
BlueSnap BlueTooth Adapter (DCE)	PCM-Printer (DCE)	NULL 9F/9M	114-0273
Citizen CT-S310 (DTE)	PCM-Printer (DCE)	Straight 9F/25M	114-0089
Citizen CT-S4000 (DTE)	PCM-Printer (DCE)	Straight 9F/25M	114-0089
Citizen CT-S601 (DTE)	PCM-Printer (DCE)	Straight 9F/25M	114-0089
Midcom/Citizen CT-S651 (DTE)	PCM-Printer (DCE)	Straight 9F/25M	114-0089
Datamax M4te Printer (DCE)	PCM-Printer (DCE)	NULL 9F/9M	<b>114-0273 ****</b>
Epson TM-220 (DTE)	PCM-Printer (DCE)	Straight 9F/25M	<b>114-0089 **</b>
Epson TM-295 (DTE)	PCM-Printer (DCE)	Straight 9F/25M	114-0089
Epson TM-88 (DTE)	PCM-Printer (DCE)	Straight 9F/25M	114-0089
Fujitsu FP-460 (DTE)	PCM-Printer (DCE)	Straight 9F/25M	114-0089
MID:COM Impact Printer (DCE)	PCM-Printer (DCE)	NULL 9F/9M	114-0273
Midcom/Axiom/Telesto Thermal Printer (DTE)	PCM-Printer (DCE)	Straight 9F/9F	114-0271
Printek RT43 (BlueTooth)	None, Uses BlueTooth	---	---
Printek RT43 (Serial)	PCM-Printer (DCE)	NULL 9F/9M	<b>114-0273 ****</b>
Zebra RW420 (DCE)	PCM-Printer (DCE)	Custom	<b>702-0116 ***</b>

\*Cable depends on GPS Receiver, contact Midcom.

\*\*TM-220 must be in XON/XOFF, set DIP1 SW3 to ON.

\*\*\* Zebra RW-420 requires DSR high to be awake, Pin4 on DE9 is DTR --> DSR on Pin7 of 10 pin connector.

\*\*\*\* Requires Datamax Cable: DB9-FRTANGRJ127NONCOIL + M/F Null Modem Adapter

+ Blaster puts +5 VDC on Pin9, use Midcom cable with 8000 to isolate Pin9 or printer may be destroyed.

++ E:Count PCM uses only 3-Wire Comms so Pin9 is already isolated, but custom 3-wire cable recommended.

+++ Requires Printek Cable: Part # 91849 "RT43 RS232 Cable" + M/F Null Modem Adapter

#### **To connect a Printer to the E:Count PCM via Digi RF Radios:**

1. Connect the RF Radio to the PCM-Printer port via a NULL 9F/(M cable (Part # 114-0273).
2. Connect the RF Radio to the Printer using the opposite gender of the appropriate cable for that printer.

Wired Cable - Printer to PCM	Part #	Opposite Gender for Wireless	Part #
Custom Straight 3-Wire 9F/9M	<b>702-0091</b>	Custom Straight 3-Wire 9M/9M	114-0384
Custom NULL 3-Wire 9F/9M	<b>702-0089</b>	Custom NULL 3-Wire 9M/9M	114-0385
NULL 9F/9M	114-0273	NULL 9M/9M	114-0386
Straight 9F/25M	114-0089	Straight 9M/25M	114-0387
Straight 9F/9F	114-0271	Straight 9M/9F	114-0100

Epson TM-88 – If **Printing Logo** select **“TM-88”** otherwise select **“THERMAL”**

Uses serial cable 114-0089 Straight 9F/25M



Citizen CT-S651 – If **Printing Logo** select **“CTS651”**, otherwise **“THERMAL”**

Uses serial cable 114-0089 Straight 9F/25M

The CT-S601 is a top-exit version of the CT-S651:



Epson TM-295 – Select **TM-295**

Uses serial cable 114-0089 Straight 9F/25M



Midcom Impact Printer - Select **MIDCOM**

Uses serial cable 114-0273 NULL 9F/9M



Zebra RW-420 – If **Using Black Mark Sensing** select “**RW420B**”, otherwise “**ZEBRA**”

Uses serial cable 702-0116 custom



Custom Engineering Q3 – If **Using Black Mark Sensing** or **Printing Logo** select “**Q3**”, otherwise “**THERML**”

Uses serial cable 114-0273 NULL 9F/9M



Star FV-P10 – If **Using Black Mark Sensing** or **Printing Logo** select “TSP700”, otherwise “THERML”

Uses serial cable 114-0089 Straight 9F/25M



Star TS-P700-II – If **Using Black Mark Sensing** or **Printing Logo** select “TSP700”, otherwise “THERML”

Uses serial cable 114-0089 Straight 9F/25M



Datamax O’Niel MicroFlash 4te – Select **“DMM4TE”**

Requires Datamax Cable: DB9-  
FRTANGRJ127NONCOIL \*and\* a M/F Null  
Modem Adapter



Printek Mobile FieldPro RT43 – Select **“RT43BT”**

Requires FieldPro Serial Cable RJ45 to DB9  
#91849 \*and\* a M/F Null Modem Adapter



Epson TM-U220 – Select “**TM-220**”

**Uses serial cable 114-0089 Straight  
9F/25M**



Blaster/Cognitive Advantage - If ***Using Black Mark Sensing*** “**BLASTB**”, otherwise “**BLASTR**”

**As long as neither the PCM nor the Blaster are putting out power the standard 114-0100 serial cable is safe to use, otherwise the 702-0091 cable that connects only pins 2,3,5 (Tx, Rx, & Ground) is required**





Fujitsu FP-460 (***Discontinued***) – If ***Printing Logo*** or using ***Black Mark Sensor Paper*** select “**FP-460**”, otherwise select “**THERML**”

Uses serial cable 114-0089 Straight 9F/25M



Citizen CT-S310 (***Discontinued***) – If ***Printing Logo*** select “**CTS310**”, otherwise “**THERML**”

Uses serial cable 114-0089 Straight 9F/25M



Midcom/Axiom Thermal Printer  
(**Discontinued**) - Select "**THERML**"

**Uses serial cable 114-0271 Straight 9F/9M**



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