

# Firmware Product Bulletin

This document will show the various firmware and related term type and payphone types. This can be used for properly upgrading terminals as well as allowing the technician in the field ensure the correct firmware is in the terminal.

If you have any questions please call the 1-800-820-4680 helpdesk.

## Terminal firmware version by terminal type

The following tables list each terminal type currently in the field and the version of software that is required by each.

**Table PB-1: Terminal firmware listings**

<b>MTR</b>	<b>Version</b>	<b>Term Type</b>	<b>Description</b>
<b>Multipay Multicard</b>			
MTR1.6s	<b>M12ABX10</b>	<b>12</b>	Multipay Multicard E/F
MTR1.6s	<b>M12ABX11</b>	<b>12</b>	Multipay Multicard E/F
MTR1.6	<b>M12ABX12</b>	<b>9</b>	Multipay Multicard E/F
MTR1.7	<b>M06CAA10</b>	<b>13</b>	Multipay Multicard E/S
MTR1.7	<b>M06CAA17</b>	<b>13</b>	Multipay Multicard E/S
MTR1.7	<b>M06CAF03</b>	<b>13</b>	Multipay Magstripe E/S
MTR1.7	<b>M06CFA01</b>	<b>14</b>	Multipay Multicard E/S
MTR1.7	<b>M06KFA01</b>	<b>14</b>	Multipay Multicard E/F
MTR1.7	<b>NAA1F03</b>	<b>26</b>	Multipay Multicard E/F
MTR1.7	<b>NAA1F04</b>	<b>26</b>	Multipay Multicard E/F
MTR1.7	<b>NAA1J03</b>	<b>23-26</b>	Multipay Multicard E/J
MTR1.7	<b>NAA1J04</b>	<b>26</b>	Multipay Multicard E/J
MTR1.7	<b>NAA1J06</b>	<b>26</b>	Multipay Multicard E/J
MTR1.7	<b>NAA1S03</b>	<b>26</b>	Multipay Multicard E/S
MTR1.7	<b>NAA1S04</b>	<b>26</b>	Multipay Multicard E/S
MTR1.7	<b>NAA1S05</b>	<b>26</b>	Multipay Multicard E/S

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<b>MTR</b>	<b>Version</b>	<b>Term Type</b>	<b>Description</b>
MTR1.7	NAA1S06	26	Multipay Multicard E/S
MTR1.9	NBA1F01	30 (28)	Multipay Multicard E/F
MTR1.9	NBA1F02	30 (28)	Multipay Multicard E/F
MTR1.9	NBA1F03	30	Multipay Multicard E/F
MTR1.9	NBA1J01	30	Multipay Multicard E/J
MTR2.0	NCA1S01	36	Multipay Multicard Downloadable
MTR2.0	NCA1S02	36	Multipay Multicard Downloadable
MTR2.0	NCA1X01	36	Multipay Multicard Downloadable
MTR2.0	NCA1X02	36	Multipay Multicard Downloadable
MTR2.0	NCA1X03	36	Multipay Multicard Downloadable
MTR2.11	NKA1X01	51	Multipay Multicard Downloadable
MTR2.11	NKA2X01	53	Multipay Multicard Downloadable
MTR2.11	NKA2X02	53	Multipay Multicard Downloadable
MTR2.11	NKA1X02	51	Multipay Multicard Downloadable
MTR2.11	NKA1X03	51	Multipay Multicard Downloadable
<b>Card only</b>			
MTR1.7	NAE1F02	23	Card only multicard E/F
MTR1.7	NAE1J02	23	Card only multicard E/J
MTR1.7	NAE1S02	23	Card only multicard E/S
MTR1.9	NBE1F01	27	Card only multicard E/F
MTR1.9	NBE1S01	27	Card only multicard E/S

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<b>MTR</b>	<b>Version</b>	<b>Term Type</b>	<b>Description</b>
<b>Deskset</b>			
MTR1.7	MO6KDB02	15	Desk Multicard E/F
MTR1.7	MO6KDB03	15	Desk Multicard E/F
MTR1.7	MO6KDB05	15	Desk Multicard E/F
MTR1.7	MO6KDB07	15	Desk Multicard E/F
MTR1.7	MO6KDC01	15	Desk Multicard E/F
MTR1.7	MO6KDC02	15	Desk Multicard E/F
MTR1.7	MO6CDB01	15	Desk Multicard E/S
MTR1.7	MO6CDB02	15	Desk Multicard E/S
MTR1.7	NAJ1S06	25	Desk Multicard E/S
MTR1.7	NAJ1S07	25	Desk Multicard E/S
MTR1.7	NAJ1F06	25	Desk Multicard E/F
MTR1.7	NAJ1J04	25	Desk Multicard E/J
MTR1.7	NAJ1J06	25	Desk Multicard E/J
MTR1.7	NAJ1J07	25	Desk Multicard E/J
MTR1.7	NAJ1S04	25	Desk Multicard E/S
MTR1.7	NAJ2J01	25	Desk Multicard E/J REL 2 H/W
MTR1.7	NAJ2J02	25	Desk Multicard E/J REL 2 H/W
MTR1.7	NAJ2S01	25	Desk Multicard E/S REL 2 H/W
MTR1.7	NAJ2S03	25	Desk Multicard E/S REL 2 H/W
MTR1.7	NAJ2S04	25	Desk Multicard E/S REL 2 H/W
MTR1.7	NAJ2S05	25	Desk Multicard E/S REL 2 H/W
MTR1.7	NAJ2J03	25	Desk Multicard E/J REL 2 H/W
MTR1.7	NAJ2S06	25	Desk Multicard E/S REL 2 H/W
MTR1.7	NAJ2S07	25	Desk Multicard E/S REL 2 H/W
MTR1.9	NBJ1F01	29	Desk Multicard E/F REL 1 H/W
MTR1.9	NBF1F03	29	Desk Multicard E/F REL 1 H/W

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<b>MTR</b>	<b>Version</b>	<b>Term Type</b>	<b>Description</b>
MTR1.9	NBJ1J03	29	Desk Multicard E/J REL 1 H/W
MTR1.9	NBJ2F01	29	Desk Multicard E/F REL 2 H/W
MTR1.9	NBJ2F03	29	Desk Multicard E/F REL 2 H/W
MTR1.9	NBJ2F04	29	Desk Multicard E/F REL 2 H/W
MTR1.9	NBJ2J03	29	Desk Multicard E/J REL 2 H/W
MTR1.9	NBJ2J04	29	Desk Multicard E/J REL 2 H/W
MTR1.11	NJJXS01	45	Desk Multicard E/S REL 2 H/W
MTR1.11	NJJXS02	45	Desk Multicard E/S REL 2 H/W
<b>Coin only</b>			
MTR1.7	NAD4J01	19	Coin Only Display E/J
MTR1.7	NAD4J02	19	Coin Only Display E/J
MTR1.7	NAD4S02	19	Coin Only Display E/S
MTR1.7	NAD4S03	19	Coin Only Display E/S
MTR1.7	NADXS01	19, 24	Coin Only No Display E/S
MTR1.7	NADXS02	19	Coin Only No Display E/S
MTR1.7	NADXS03	19	Coin Only No Display E/S
MTR1.7	NADXS04	19	Coin Only No Display E/S
MTR2.0	NED2X01	38	Coin Only Display
MTR2.0	NED4X01	38	Coin Only No Display
MTR2.11	NKD1X04	56	Coin Only Display
<b>Inmate</b>			
MTR1/7i	M06KEC12	15	Inmate E/F

Table PB-1: Terminal firmware listings

<b>MTR</b>	<b>Version</b>	<b>Term Type</b>	<b>Description</b>
<b>NetVenue</b>			
MTR2.0	NCE2X01	36	Card MAC WEBSTN
MTR2.0	NCE2X02	36	Card MAC WEBSTN
MTR2.0	NCE2X03	36	Card NETVENUE
MTR2.0	NCE3X01	36	Card NETVENUE
<b>Graphic Terminal</b>			
MTR2.0	NEA1X02	40	Multipay Graphic
MTR2.2	NEA1S01	22	Multipay Graphic E/S
<b>International</b>			
MTR1.7	M06KOB02		Card Only NETAS
MTR1.7	M06KOB04		Card Only NETAS
MTR1.7	M06CND04		Card Only MACEDONIA/NETAS
MTR1.7	M06JOB02		Card Only JORDAN/NETAS
MTR1.7	M06CNB02		Card Only BOSNIA/NETAS
MTR1.9	PBAXS02	32	Multipay PERU
MTR1.9	PBAXS03	32	Multipay PERU
MTR1.9	PBAXS04	32	Multipay PERU
MTR1.9	EBA1S01	32	Multipay EQUADOR
MTR1.9	IBAXS01	46	Multipay INTER'L
MTR1.9	IBDXS01	42	Coin Only INTER'L
MTR1.9	IBF4S01	33	Card Only COLOMBIA
MTR1.9	IBK4S01	33	Deskset COLOMBIA

Table PB-1: Terminal firmware listings

MTR	Version	Term Type	Description
<b>Special</b>			
MTR2.2	NEA3F01	22	Multipay Mondex
MTR2.2	NEA3F02	22	Multipay Mondex
MTR2.2	NEA3F03	22	Multipay Mondex
MTR2.2	NEA3F04	22	Multipay Mondex
MTR2.3	NFA1S02	34	Multipay E-Purse

**IMPORTANT NOTE:** The above list is for general release terminals.

For special releases, firmware may be specific to certain versions of the through-hole control PCP. If you are unsure of what replacement firmware you require, contact Millennium GTS for confirmation.

If you are attempting to upgrade the version of the terminal to another version, please refer to the upgrade documentation.

## Multi-pay and Card-only control boards

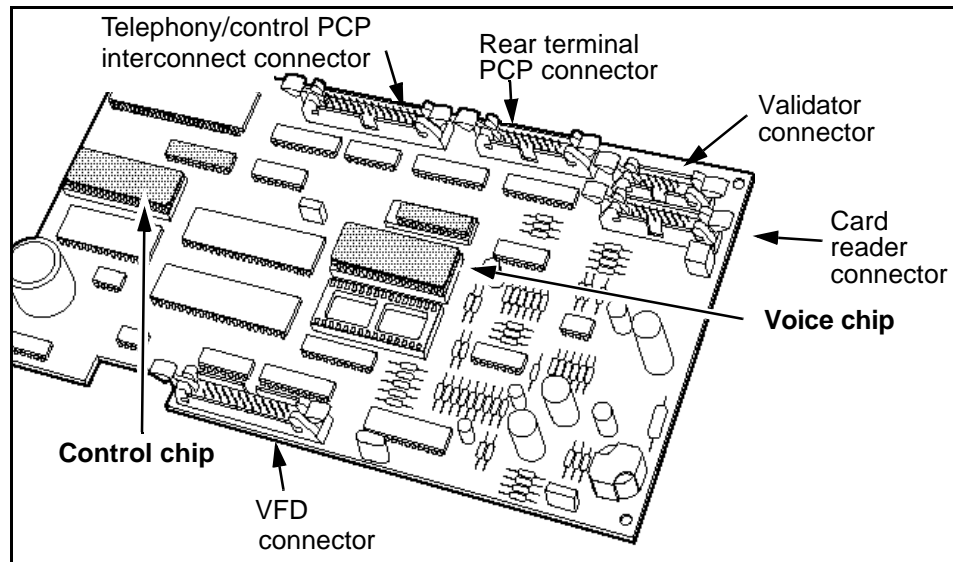
There are two types of Multi-pay and Card-only control boards in the field.

The older type is the through-hole board, as shown in Figure PB-1. The newest board, which allows electronic updating of firmware, is shown in Figure PB-2, and is called the multi-application control board.

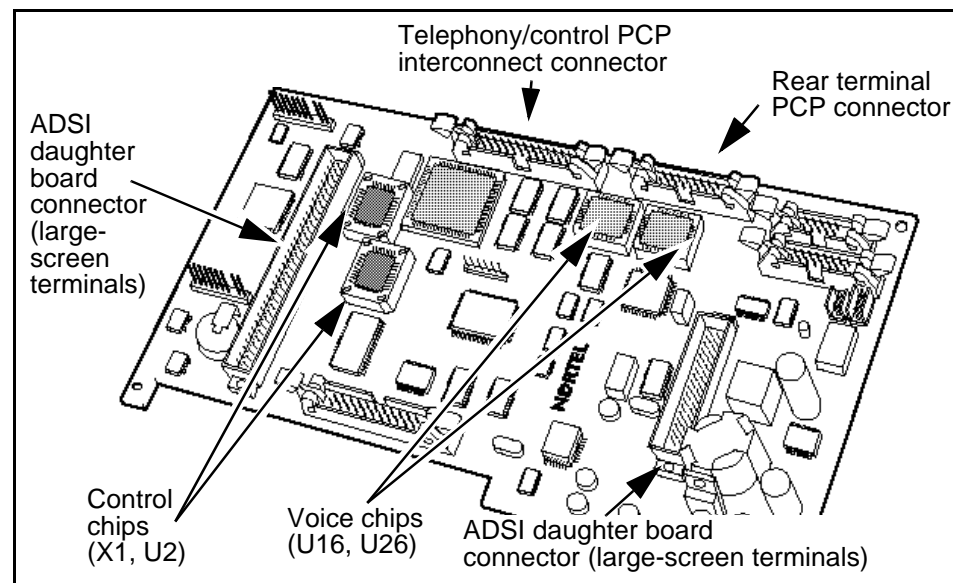
Chip locations on the two types of control boards are shown in the next two figures.

Note that the through-hole control PCP has one firmware and one voice chip, and the multi-application control board has two of each.

**Figure PB-1: Through-hole board — replaceable chips**



**Figure PB-2: Multi-application board — replaceable chips**



<p><b>See this</b></p> <p><b>Vintage alert</b></p>	<p><b>Large-screen terminals</b></p> <p>If the control PCP comes from a Graphical terminal, there will be an ADSI daughter board covering the firmware chips.</p> <p>Remove this board by loosening it at either end and then pulling it off the control PCP. Put the board in an anti-static bag until you are ready to reinstall it.</p>
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Refer to Table PB-1 for the socket numbers for the multi-application control PCP firmware chips.

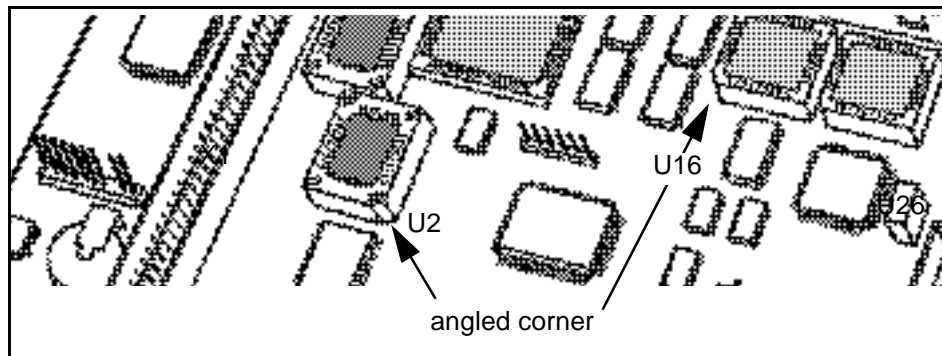
**Table PB-1: Firmware chip socket locations**

Control chips	Label	Socket
Firmware chip #1	XXXXXX (loaded device CPC code) FW2.0A (firmware and version code) U2 (socket number)	U2
Firmware chip #2	XXXXXX (loaded device CPC code) FW2.0A (firmware and version code) X1 (socket number)	X1
<b>Voice chips</b>		
Voice chip #1	XXXXXX (loaded device CPC code) VW2.0A (voiceware and version code) U16 (socket number)	U16
Voice chip #2	XXXXXX (loaded device CPC code) VW2.0A (voiceware and version code) U26 (socket number)	U26

**Through-hole control PCP:** There is a notch or tab on the socket that matches a notch or tab on the chip. Match these up to ensure the chip is oriented properly in the socket.

**Multi-application control PCP:** An angled corner on the chip matches to an angled corner on the bottom of the sockets. Refer to Figure PB-3.

**Figure PB-3: Lining up the chip in the socket**





# Desk terminal control

The desk set has one firmware and one voiceware chip. they are located near the card reader assembly. Refer to the following diagrams.

Figure PB-4: Desk set control PCP firmware locations

