



Subject: F53 Universal PCB

Overview

In April 2007, Fujitsu released the model F53 semi-bunch bill dispenser unit with a main PCB that supports either RS-232 or USB communication interfaces. This enhancement was referred to as the 'universal PCB'. Basically it is a one board, one firmware solution that supports either RS-232 or USB protocols. With a simple jumper setting change, customers can now select which interface to use. Since the 'universal PCB' offers the same features and functionality as the RS-232 versions the 'universal PCB' will be implemented to all F53 models.

Solution

The F53 'universal PCB' (P/N KD20040-B92X) will be implemented into production starting October 1, 2011. The following models will be affected:

<u>P/N Changes</u>	From			To		
	Current FTEC P/Ns RS232C I/F only	Current F/W	Current FFNA P/Ns RS232C I/F only	New FTEC P/Ns USB/RS232C I/F	New F/W	New FFNA P/Ns USB/RS232C I/F
Description	KD20049-B91X			KD20049-B92X		
F53 Xtray FS	KD03235-B002	AA0500	12000001	KD03235-B052	UA0500	12000001
F53 Xtray RS	KD03235-B102	AA0500	12000002	KD03235-B152	UA0500	12000002
IBM	KD03235-B004	AA0500	12000009	KD03235-B054	UA0500	12000009
Tray	KD03236-B002	AA0500	12000015	KD03236-B052	UA0500	12000015
Semi Bunch (DLR replacement)	KD03236-B004	US0300	12000129	KD03236-B054	UN0400	12000129
Semi Bunch FS	KD03236-B202	AA0500	12000116	KD03236-B252	UA0500	B252
Semi Bunch Extended RS	KD03236-B402	AA0500	N/A	KD03236-B452	UA0500	B452
Semi Bunch Extended FS	KD03236-B502	AA0500	12000217	KD03236-B552	UA0500	12000217
Spare PCB	N/A	N/A	N/A	KD03234-K910	UA0500	KD03234-K910*

*KD03234-K910 is preloaded with F/W version UA0500 and includes an instruction sheet for proper protocol jumper settings. Refer to image 3 for instruction sheet.

*Contact Fujitsu-Frontech North America Product Management for information regarding models not listed above (tim.karlicek@us.fujitsu.com)

Technical Specifications:

- The 'universal PCB' has 2 communication receptacles, one for RS-232 (8pin) and another for USB (type B). Refer to image 1 below for receptacle location.
- The 'universal PCB' supports all Reliability-Availability-Serviceability (RAS) functionality and Fujitsu test utility functionality (i.e. F53bduTP for RS-232 and F53bduTPU for USB)
- The 'universal PCB' is not backwards compatible on non-RoHS F53 units.
- Default firmware version on the 'universal PCB' is UA0500, this version supports either RS-232 and USB protocols. For more information regarding USB protocol interface, refer to Fujitsu's USBLIB I/F Specification manual (available upon request).
- Default jumper settings on the 'universal PCB' are set for USB protocol. Refer to image 2 below for protocol jumper settings.



Product manufacturing and field service technicians should confirm proper jumper settings for their specific protocol and deployment configurations.



Firmware version UA0500 supports all existing features and functionality; there is no impact to application software. However, it is always recommended to test software compatibility before deploying any hardware updates.



Current RS-232 firmware version AA0500 cannot be used on the 'universal PCB'



The 'universal PCB' is not applicable to F56 models. Only the RS-232 version PCB (P/N KD20048-B91X) can be used on the F56 and there is no plan to migrate the 'universal PCB' on the F56

Image 1 – USB / RS232 Receptacles

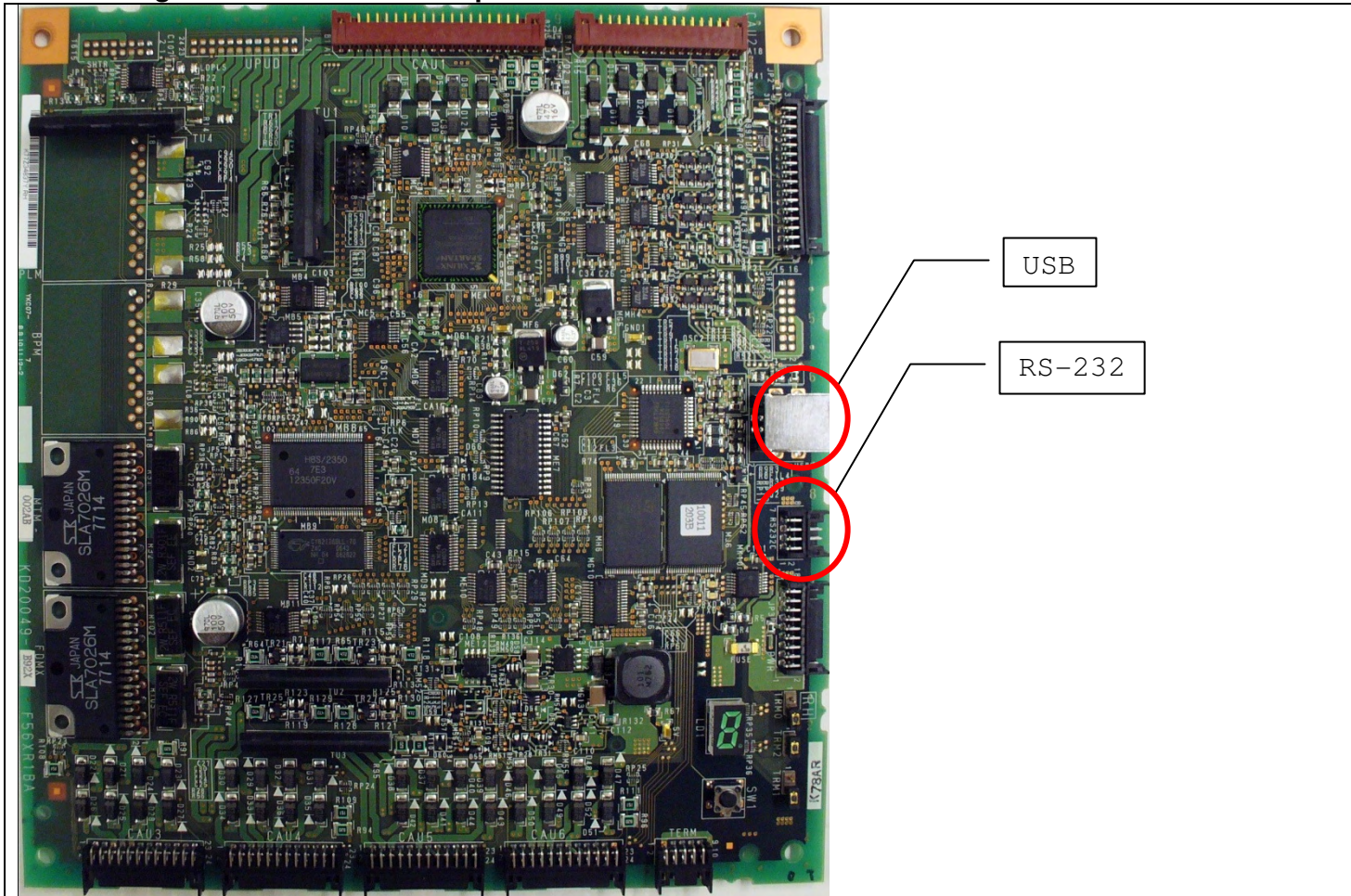



Image 2 – Protocol Jumper Settings

Protocol	TRM0	TRM2	TRM1
USB (factory default)	ON	OFF	OFF
RS-232	OFF	OFF	OFF


Image 3 – PCB FRU KD03234-K910 Instruction Sheet

Protocol Settings		
	USB	RS232
TRM0	ON	OFF
TRM2	OFF	OFF
TRM1	OFF	OFF

Jumper setting:



ON (1)



OFF (0)

INQUIRIES TO:

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Released

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Product Manager

DATE

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