

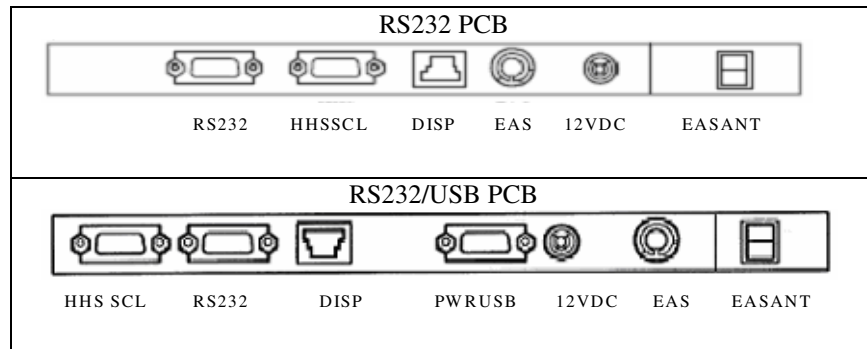
**Subject: Fujitsu Scanners Decoding Databar (RSS14)**

**Overview**

With the introduction of Databar (RSS14) barcodes Sustaining Engineering has received many inquiries regarding the decoding capabilities of the Fujitsu scanners. This bulletin contains the current status.

Model RSS232 I/F	Latest Firmware Version	Databar (RSS14) Decoding Status
SS1200	MR_RSS3	The production RS232 firmware does not allow the decoding of Databar (RSS14). A firmware upgrade to MR_RSS3 is required. <b>WARNING</b> If the serial number is not 2233 or above do not load firmware MR_RSS3. Two custom versions of firmware specific to customers cannot be upgraded for Databar (RSS14). Customer Account managers will be notified.
9500	HIRSS_04	The production RS232 firmware does not allow the decoding of Databar (RSS14). A firmware and EPROM upgrade are required. EPROM upgrade from 1meg to 2meg (Mfg. AMD part numbers AM27C020-120DC, AM27C020-150DC) or (Mfg. ST Microelectronics part numbers M27C2001-10F1, M27C2001-12F1, M27C2001-15F1). Firmware HIRSS_04.
9900	SIR12_29	All scanners with firmware level SIR11_15 or above will decode Databar (RSS14). Because of read performance issues it is recommended that the firmware be upgraded to SIR12_29.

There are two System boards for the 9950 scanner, RS232 and RS232/USB, and they require different firmware.



Model RSS232 I/F	System PCB	Latest Firmware Version	Databar (RSS14) Decoding Status
9950	RS232	NIR5_21	Initial firmware release NIR04_07 in 2003 and all firmware released following initial release will decode Databar (RSS14) barcodes
9950	RS232/USB	UIR03_06	Initial firmware release UIR03_04 in 2005 and all firmware released following initial release will decode Databar (RSS14) barcodes

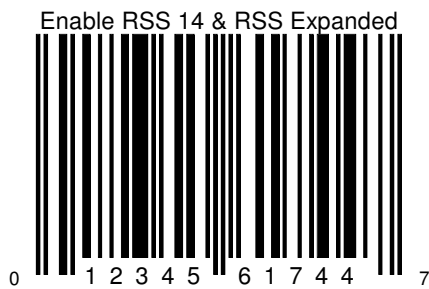
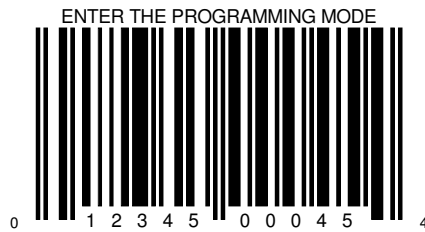
Fujitsu scanners will decode 14 character, expanded, stacked and Omni directional Databar (RSS) barcodes. Firmware, download software, and procedures can be found on the Sustaining Engineering FTP site shown in the Inquiries box below.

<b>INQUIRIES TO:</b>		DATE
Fujitsu Transaction Solutions Inc.		_____
Exchange:	Sustaining Engineering	_____
Mail:	Fujitsu USA04, Sustaining Engineering	_____
FAX:	858-731-4781 (7888-4781)	_____
Internet:	<a href="mailto:SustainingEngineering@us.fujitsu.com">SustainingEngineering@us.fujitsu.com</a>	_____
FTP:	<a href="ftp://ftp.ftxs.fujitsu.com/">ftp://ftp.ftxs.fujitsu.com/</a>	_____
Original signature copies maintained by Sustaining Engineering.		

**PROGRAMMING LABELS FOR DATABAR (RSS14) BARCODE DECODING**

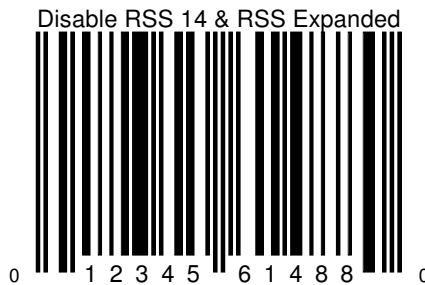
To Enable RSS14 decoding use the following sequence.


SCAN ENTER THE PROGRAMMING MODE  
SCAN ENABLE RSS14 & RSS EXPANDED  
SCAN EXIT SAVE AND RESET



To disable RSS14 decoding use the following sequence.

SCAN ENTER THE PROGRAMMING MODE  
SCAN DISABLE RSS14 & RSS EXPANDED  
SCAN EXIT SAVE AND RESET



	Fujitsu Transaction Solutions	<b>Scanners SS1200, 9500, 9900, 9950</b>  <b>RSS14/GS1 Databar Decoding</b>		
	Sustaining Engineering			
	San Diego, CA; Montreal, QC		Date:	January 30, 2009

**PURPOSE:**

The purpose of this document is to identify the definition and requirements of 2005 Sunrise Compliance, GTIN, RSS14, Databar, and the functional status of Fujitsu Scanners for the new symbology.

**Terms Used:**

To prevent the misunderstanding of terms used in this document, symbology terms RSS and RSS14 are the equivalent of the new symbology term GS1-Databar.

**2005 Sunrise and GTIN:**

The definitions for GTIN and 2005 Sunrise Compliance are in Bulletin PSB04-009. Many links in the Bulletin are no longer valid. Go to links <http://www.gtin.info/sunrise.html> and <http://www.gtin.info/> for the UCC definition of 2005 Sunrise and GTIN.

**Scanner Functional Status:**

Scanner Model	Serial Number	2005 Sunrise	GTIN	GS1 Databar (RSS14)
SS1200	2933 and above (Note 1)	No (Note 2)	No (Note 2)	Note 3
9500	All Serial Numbers	Yes	Yes	Note 4
9900	All Serial Numbers	Yes	Yes	Note 4
9950 (RSS232)	All Serial Numbers	Yes	Yes	Note 5
9950 (USB/RS232)	All Serial Numbers	Yes	Yes	Note 5

**NOTE 1:** The SS1200 will need a firmware upgrade before it will decode RSS (Databar). The firmware is on the Fujitsu FTP site (MR\_RSS3). On the SS1200, please beware the serial number must be 2933 or above and manufactured later than April of 1998. If not, do not load the new firmware. The older SS1200 scanners cannot recover if the new firmware is loaded. Reference attached documents: Bulletins PSB08-65 and Bulletin 97-31A. In Bulletin PSB08-65 the firmware cut in serial number is incorrect it is 2233 and it should be 2933.

**NOTE 2:** Initially when the requirement for 2005 Sunrise Compliance was introduced the SS1200 complied with GTIN requirements using firmware MSR06\_03. However, when RSS14 decoding became a requirement and firmware MR\_RSS3 was developed, the GTIN function had to be removed to make available space for the RSS14 functions.

**NOTE 3:** The SS1200 will decode the following barcodes RSS14, RSS14 Omni Directional Stacked, and RSS14 Expanded (limit of 14 characters).

The SS1200 will not decode RSS Expanded Stacked, RSS Expanded Stacked Omni Directional or RSS Expanded with more than 14 characters.

**NOTE 4:** The 9500 and the 9900 will decode the following barcodes RSS14, RSS14 Omni Directional Stacked, and RSS14 Expanded (limit of 14 characters). Firmware requirements are in Bulletin PSB08-065

The 9500 and 9900 will not decode RSS Expanded Stacked, RSS Expanded Stacked Omni Directional or RSS Expanded with more than 14 characters.

**NOTE 5:** The 9950 RS232 and USB/RS232 will decode the following barcodes RSS14, RSS14 Omni Directional Stacked, RSS14 Expanded, and RSS14 Expanded Stacked. Firmware requirements are in Bulletin PSB08-065. Interface requirements are in Bulletin PSB05-004.

**RSS/Databar Product/Coupon Types**

The RSS14 Omni Directional Stacked barcodes are typically used on produce. The RSS Expanded and RSS Expanded Stacked barcodes are typically used on Coupons.

**Reference Documents:**

Bulletin 97-031A , Bulletin PSB04-009, Bulletin PSB05-004, Bulletin PSB08-065