

**Subject: Shekel Universal Bag Scale (UBS)**

**SYNOPSIS**

This document is intended to supply sufficient information to service planners to enable them to plan for the introduction of the above product(s). This SPG is the generic version, released by the product authority, Fujitsu Frontech North America (FFNA) Sustaining Engineering. Each group releasing the product will use the information contained as the basis for their Logistics and Field Service planning activities. This document details only the corporate philosophies, and does not seek to cover such subjects as additional services offered by the various service organizations, third party service providers, low level repairs, or the local sourcing of components and consumable items. The service descriptions in this document are guidelines, detailing the recommendations of the product authority. The information within this document has been reviewed for accuracy, but as with most documents, errors may be found and corrected in future revisions. Fujitsu cannot be held liable for any inaccurate information found in this document.



**4 Bag Scale Configuration Shown**

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## Product Overview

The Universal Bag Scale (UBS) product line is designed as configurable scale modules, which can be combined to form the following scale configurations:

- 1+ Bag
- 2-Bag
- 4-Bag
- 6-Bag

Each bag scale is sized so that it can accept up to two standard bag racks. In addition, each bag scale module can be fitted with optional risers, increasing the height by 4" or 12".

The standard platter is made from MDF covered with black thermoplastic. An optional stainless steel platter is also available.

The UBS modules can be ordered without bumpers, or with a choice of black plastic or Stainless steel bumpers

## Reference Material

The following documents are located on the FTP site: <ftp://ftp.ftxs.fujitsu.com/pos/possustaining/Retail/U-ScanGenesis/>

D900000445 – U-Scan Genesis Universal Bag Scale Assembly Manual

## Dimensions and Components

- Universal Bag Scale overall dimensions are as follows:

Configuration	Outline Dimensions	Consisting of the Following Shekel Parts		
		Controller	DEBB's	Dummy Plugs
<b>1+ Bag Scale</b>	15.4" W X 29.5"D X 19.8" H	1	2	2
<b>2 – Bag Scale</b>	27.3"W X 15.4"D X 19.8"H	1	2	2
<b>4 – Bag Scale</b>	27.3"W X 29.5"D X 19.8"H	1	4	0
<b>6 – Bag Scale</b>	40.3"W X 29.5"D X 19.8"H	2	6	2

## Weight Capacities

Weight capacities are 150lbs. per UBS Module. Each UBS Module can have up to two bag racks, or a maximum of 75lbs. per bag rack. A UBS Module consists of two DEBB's (Double Ended Bending Bars) also called scale bars and connecting cables.

## Power Ratings

The Shekel Universal Bag Scale controller is rated as follows:

Standard – no AC power is used by the controller. It is powered from the PC and uses +12V @ 0.5A

### Availability

The target release of the Shekel Universal Bag Scale is April, 2012. Release will be through all current channels. The Shekel Universal Bag Scale is designed for the Tier 1 through Tier 4 retail marketplace. Its initial release is for all markets.

### Software

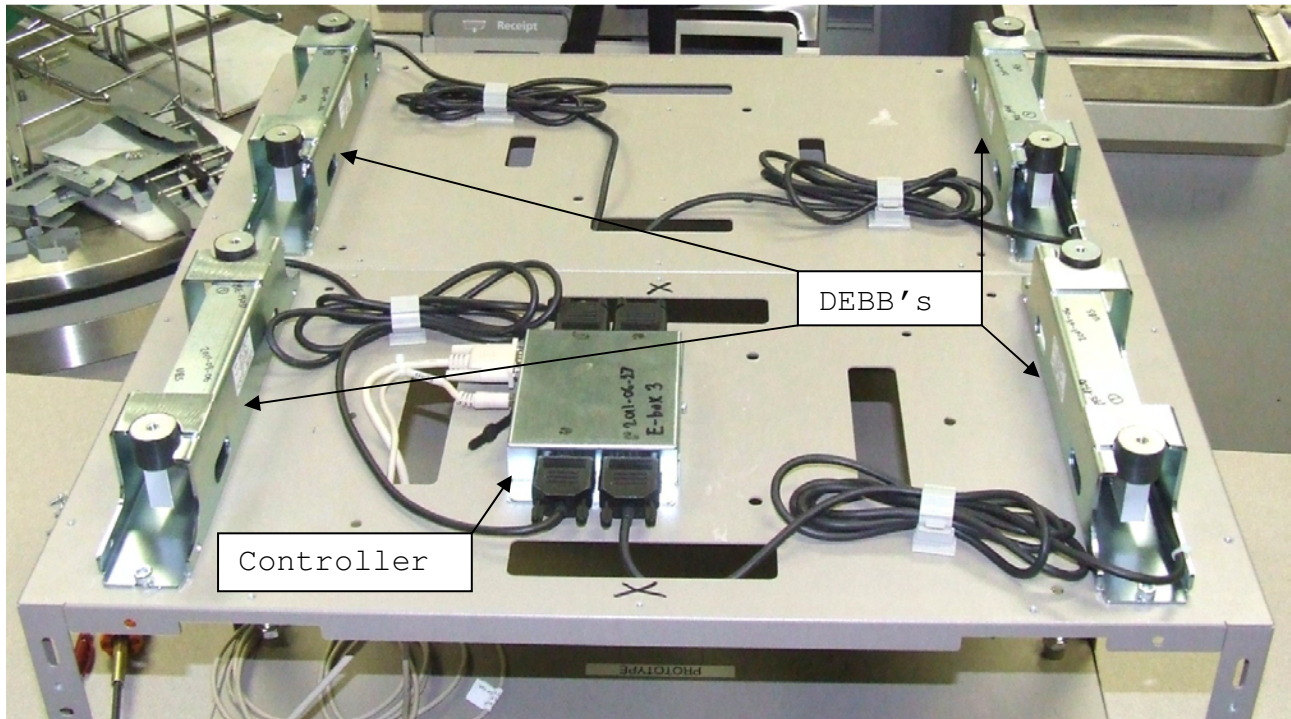
Other than the current application software, a Dorban utility for scale configuration and calibration will be required. This utility is found on the desktop and not in the device tester.

### Reliability/Environmental Specification

<b>Shekel Controller - MTBF</b>	Approx 50,000 Power on hours
<b>- Component life</b>	Approx 5 years
<b>MTBF – 150lb Scale Bars</b>	166 million cycles of loading and unloading at 90% of max. capacity
<b>Temperature</b>	Operation 0°C ~ 40°C Non operation -30°C ~ 60°C Note: Definition of non-operation Equipment can be powered on with no damage. Performance is not guaranteed until returned to normal temperature.
<b>Humidity</b>	Operation 10% ~ 90% RH no condensation Non operation 10% ~ 95% RH no condensation

### Cable Connections

There are four independent analog input ports for connecting load cell(s) configured as a Wheatstone bridge. Each input is terminated via a DB9 male connector.



Mounting the Controller and Four DEBB's for a Four Bag Scale Configuration

### Shekel Controller

The controller V3.3 will operate only if all four input ports are connected to approved load cells. For configurations requiring less than four active load cells, an additional “dummy” load cell(s) as a fixed resistor packaged inside the DB9 connector was designed and documented by Shekel under P/N 11003924.

The dummy load cell (11003924) will be plugged into the controller DB9 input analog port not occupied by an active load cell to ensure all four input ports are connected to either active load cells or a dummy load.



**Dummy Plugs**

**There is a one year warranty from date of manufacturing. Defective units will be returned to the manufacturer for repair and/or replacement. Beyond the warranty, only the following items are spared:**

### Shekel Released Products

Part Number	Description	Comments
KD02909-3840	4-Port Controller, RS232, Scale Transmitter Unit	Standard mounting to fit FFNA products
11003922	DEBB 188mm, includes cables	75lb scale bar (load cells – single bar)
11003924	DB9 “Dummy” plug	

Note: For a complete listing of standard Universal Bag Scale (UBS) parts, see Product Support Bulletin PSB-09-023C. The Shekel parts will replace the controller and scale bars listed in the previous bulletin.