

October 1, 2014

Dear Customer,

Our records indicate that your company has purchased a Talon Instruments™ SR192 and/or an SR192A, VXI digital module during the last 15 years. The SR192/SR192A you purchased may have been branded as Talon Instruments™, Racal Instruments™, EADS North America Test and Services or Astronics Test Systems.

The Talon Instruments™ SR192 digital module was introduced in 1990, functionally replaced by the SR192A, and obsoleted in 2013. The SR192A digital module was introduced in the late 1990's and is now transitioning to obsolete status.

As we have been unable to identify a source for obsolete components, the majority of the SR192A product line is obsolete with no last time buy program. The balance of the SR192A and SR192 accessories will be classified as mature products with a last-time-buy program offered subject to available supplies and program expiration.

**SR 192A Obsolete Items with no last-time-buy opportunity:**

- SR192A Motherboard
- Configured SR192A variants SR192A-1-XXXXXX-Y-XXXXXX-Y-Z
- Preconfigured SR192A systems: SR192A/64V, SR192A/96V, SR192A/V
- Spare Modules: P/N's 10780, 20700, 10560, 20710, 20560-100 20570-001, 20570-002, 20570-003, 20570-004, 20570-005, 20570-006, 20560-100

Due to past demand and component unavailability, we regret that we are unable to accept production orders for any of the above-listed items. For quantities of existing inventory, please contact your Astronics Sales Representative, email us at [atssales@astronics.com](mailto:atssales@astronics.com) or call us at 1-800-722-2528.

**SR192/SR192A Accessories with mature status and last-time-buy opportunity:**

- 20461 SR192A Power Tap
- 10560 SR210 Accessory Card for SR192A
- 10780 SR107 I/O Card Accessories
- SR/300-00X, SR/300-T-00X, SR301, SR302-00X, SR/302-T-00X, SR/303-00X, SR/304-00X, SR/305, SR/306N,
- SR192/001 Operators Manual

Mature items listed above will phase to obsolete status without further notice when existing component supplies and inventory are depleted or March 1, 2015, whichever occurs first. Once obsoleted, we regret that production orders will no longer be accepted. Customers interested in the last-time-buy program should immediately notify their Astronics Sales Representative with their forecast requirements, and place their order as soon as possible. Orders for mature items are addressed on a first come, first served basis and subject to available supplies. Order acceptance is not guaranteed until confirmed by Astronics.

**Available Service, Calibration, Repair and Support for SR192/SR192A:**

Full service, calibration, repair, and customer support will remain available for the SR192/SR192A products for a target of 5 years from the date of obsolescence, provided that the components required for the repair remain available. Once components required for repairs are no longer available, service is provided on a best effort basis. For questions regarding Customer Support, please email [atshelpdesk@astronics.com](mailto:atshelpdesk@astronics.com) or call 1-(800) 722-2528.

There is no drop-in replacement for the SR192 and SR192A products; however, the Astronics Test Systems T940 VXI Digital Resource Module offers superior digital I/O test capabilities for a wide range of digital signal types previously tested with the SR192A. All customers are encouraged to upgrade to the T940 at an appropriate time in their SR192/SR192A service life. Please see the attachments on Page 3 and 4 for the SR192 and SR192A to T940 Hardware Transition Guide in order to properly configure a new T940 digital test Instrument for given channel count, signal type(s) and/or prior SR192 or SR192A configuration. For assistance with software transition, please contact an Astronics Sales Representative.

We regret any inconvenience this may cause. We have a team of instrumentation application engineers, and ATE integration specialists available to assist in providing state-of-the-art instrumentation solutions to meet your test needs.

Lester Serate

Director, Sales, Business Development & Marketing

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## Exhibit A SR192A to T940 Hardware Transition Guide

	SR192A		T940
I/O Type	Up to 12 modules per unit	Channel Equivalent	Up to two modules per unit
TTL	<b>SR125A</b>	→	<b>DR8</b>
	16 Channels, 55Ω/no termination	x2	32 CH, 50Ω/100Ω termination
	Max Data Rate: 50MHz		Max Data Rate: 50MHz
	<b>SR107</b>	→	<b>DR8</b>
	16 Channels, 55Ω typical	x2	32 CH, 50Ω/100Ω termination
	Max Data Rate: Static		Max Data Rate: 50MHz
LVDS	<b>SR126A</b>	→	<b>DR2</b>
	8 Channels, 100Ω/no termination	x4	32 Channels, 100Ω termination
	Max Data Rate: 50MHz		Max Data Rate: 50MHz
Differential	<b>SR124A</b>	→	<b>DR7</b>
	8 Ch, RS485/RS422, 100Ω/no term	x4	32 CH, RS-422/RS-485, 100Ω term
	Max Data Rate: 50MHz		Max Data Rate: 10MHz
	<b>SR127A</b>	→	<b>DR1, DR2, DR7, or DR8<sup>1</sup></b> <b>DR3e, DR9<sup>2</sup></b>
	8 Channels, ECL, 25.5Ω	x0.5	4 Channels, AUX ECL
	Max Data Rate: 50MHz		Max Data Rate: 50MHz
Variable Voltage	<b>SR214A</b>	→	<b>DR3e</b>
	16 Channels, 50Ω typical	x2	32 Channel, 12Ω or 50Ω ±4 Ω
	Range: -5V to +7V		Range: -15V to +24V
	Max Data Rate: 50MHz		Max Data Rate: 50MHz
	<b>SR214A</b>	→	<b>DR3e</b>
	16 Channels, 50Ω typical	x2	32 Channel, 12Ω or 50Ω ±4 Ω
	Range: -5V to +7V		Range: -15V to +24V
Max Data Rate: 50MHz		Max Data Rate: 50MHz	

Notes:

- 1) With any set of 4 channels routed to AUX9-AUX12. Recommended for applications where approximately 1/8 of the channels are ECL.
- 2) Programmable I/O channels can be programmed as ECL levels. Recommended with a large portion of the channels are ECL
- 3) SR101/A functionality is incorporated into the T940
- 4) SR210 & SR211 functionality is not supported in the T940

## Exhibit A SR192 to T940 Hardware Transition Guide

	SR192		T940
<b>I/O Type</b>	Up to 12 modules per unit	Channel Equivalent	Up to two modules per unit
TTL	<b>SR103/105/115</b>	→	<b>DR8</b>
	16 Channels, 55Ω typical	x2	32 CH, 50Ω/100Ω termination
	Max Data Rate: 25MHz		Max Data Rate: 50MHz
	<b>SR107</b>	→	<b>DR8</b>
	16 Channels, 55Ω typical	x2	32 CH, 50Ω/100Ω termination
	Max Data Rate: Static		Max Data Rate: 50MHz
LVDS		→	<b>DR2</b>
		x4	32 Channels, 100Ω termination
			Max Data Rate: 50MHz
Differential	<b>SR112/122</b>	→	<b>DR7</b>
	8 Channels, RS-485/422, 120Ω	x4	32 CH, RS-422/RS-485, 100Ω term
	Max Data Rate: 25MHz		Max Data Rate: 10MHz
	<b>SR123</b>	→	<b>DR1, DR2, DR7, or DR8*</b> <b>DR3e, DR9**</b>
	8 Channels, ECL, 25Ω	x0.5	4 Channels, AUX ECL
	Max Data Rate: 25MHz		Max Data Rate: 50MHz
Variable Voltage	<b>SR104/106/114</b>	→	<b>DR3e</b>
	8 Channels, 50Ω typical	x2	32 Channel, 12Ω or 50Ω ±4 Ω
	Range: -15V to +15V		Range: -15V to +24V
	Max Data Rate: 25MHz		Max Data Rate: 50MHz
	<b>SR214</b>	→	<b>DR3e</b>
	16 Channels, 80Ω typical	x2	32 Channel, 12Ω or 50Ω ±4 Ω
	Range: -5V to +7V		Range: -15V to +24V
	Max Data Rate: 25MHz		Max Data Rate: 50MHz

Notes:

- 1) With any set of 4 channels routed to AUX9-AUX12. Recommended for applications where approximately 1/8 of the channels are ECL.
- 2) Programmable I/O channels can be programmed as ECL levels. Recommended with a large portion of the channels are ECL
- 3) SR101/A functionality is incorporated into the T940
- 4) SR210 & SR211 functionality is not supported in the T940