




The following cross-reference guide is designed to help users of the now obsolete Interface Technology SR2500 and SR5000 digital subsystems determine the comparable space requirements and specifications using the Talon Instruments SR192A Digital Subsystem. The systems use different internal architectures, but in many cases, the SR192A can provide similar to or better than functionality. Please contact EADS North America Defense Test and Services for assistance with your specific replacement application.

Parametric Specification or Feature	Interface Technology Model		Talon Instrument Model
	SR2500	SR5000	SR192A
Interface Technology to Talon Instruments Digital Subsystem Technical Cross Reference Guide			
Stimulus Data Rate (Max)	25 MHz	50 MHz	50 MHz
Output Enable/Input Strobe placement resolution	10 ns	100 ps (2 ns accy)	5 ns with 1 ns increment
Enable/Strobe Accy	+/- 2 ns across a module	+/- 2 to 4 ns (SR5030)	+/- 2 ns
Timing Sets per 2 VXI Slots	1	1	32
External Trigger Inputs	2	Up to 12/two timing modules	1 trigger + 8 flag inputs
Vector Jump Bus	No	No	Yes (4 bit jump bus, 1 data cycle)
External Clock Inputs	2	2	4 (2 per timing module)
Internal Clock Source	200Hz to 25 MHz	400 Hz to 50 MHz	10 Hz to 100 MHz
Channel-Channel Skew (Max)	+/- 2 ns	+/- 2 to 4 ns (SR5030)	+/- 2 ns
Module-Module Skew (Max)	+/- 3 ns	+/- 3 to 5 ns (SR5030)	+/- 2 ns
TTL Bi-directional Channels per 2 VXI Slots (Max)	96	32	192
Variable Voltage Channels per 2 VXI Slots (Max)	96 (-4 to +7V)	16 (-5 to +15V)	192 (-5 to +7V)
RS-485 Bi-directional Channels per 2 VXI Slots (Max)	32	N/A	96
LVDS Bi-directional Channels per 2 VXI Slots (Max)	32	N/A	96
Variable Voltage Channels per VXI Chassis (Max)	576 (-4 to +7V)	192 (-5 to +15V)	1152 (-5 to +7V)
Output Sink/Source (Max)	65 mA/15 mA	65 mA/15 mA	50 mA/50 mA
Output Programmable Resolution	10 mV	10 mV	10 mV
Programmable Input Range	-4 to +7V	-6 to +12V	-5 to +7V
Programmable Input Resolution	10 mV	10 mV	10 mV
Voltage Groups per 2 VXI Slots	1 per 32 channels	4 per 16 channels	24
Real-Time Compare Capability	Yes	Yes	Yes
Memory Size per Channel	64k (256k optional)	64k	256k

Output Data Format (RT0, RT1, RTC, RTT)	Yes	Yes	Yes
Conditional Jumps, Branches, Loops	Yes	Yes	Yes
A24/A32 Support	Yes	Yes	Yes
VXIplug&play Support	Yes	Yes	Yes
Windows based program editor	Yes	Yes	Yes
LASAR 6 Post Processor	Yes	Yes	Yes
Mentor Graphics Post Processor	Yes	Yes	Yes
Unit Training Pod	N/A	N/A	Yes
Guided Probe Support	Yes	Yes	Yes
Guided Probe Data Rate (Max)	25 MHz	50 MHz	25 MHz
Guided Probe/Fault Isolation Software	Yes	Yes	Yes
Firmware Updates via the web	No	No	Yes
Calibration required	Yes	Yes	No
Self-test Pod	N/A	N/A	Yes
Warranty	1 year	1 year	1 year