

JOINT RANGE EXTENSION (JRE) 1U



The JRE 1U provides a customizable TDL system that is packaged to minimize the SWaP envelope with high-end computing performance. A rugged, all aluminum chassis rack-mount solution will surpass your ruggedization and environmental requirements and carry you into the future.

JRE 1U SPECIFICATIONS

Manufacturer	Crystal Rugged
Series	RS112
Motherboard	Supermicro X12SPi-TF
Power	460W 120/240VAC 50/60Hz
Hard Drives	1 or 2 Removable SATA 2.5"
Memory	32GB DDR4
Cooling	Six high speed/high volume fans; CPU temperature Controlled
CPU	Intel® Xeon Silver 4310T @ 2.3Ghz
Dimensions	H 1.75" W 19" D26" (with slides)
Weight	15-21 lbs
OS	Windows 10® Pro (22H2)
Optical Drive	DVD R/W
MIL-STD	Meets MIL-STD 461E, MIL-STD 810F and MIL-STD 901D
External Serial	D-Subminiature 9 Pin Male Connector
GPS (Internal)	Future development

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*The JRE 1U is versatile and can be customized to perform the TDL operations to meet your requirements.
Select 1 of 3 interface cards:*

1553 Interface Card for MIDS/JTRS (Platform A) radios and host systems

- 1553 PCIe card; Dual Channel MIL-STD-1553 compliant component, using dual redundant busses to provide fail over protection.

Serial Interface Card for JREAP-B Serial Links along with various radio interfaces supporting UHF, SHF SATCOM, and UHF Demand Assigned Multiple Access (DAMA) networks utilized for JREAP-A and USN Sat J.

- RS-422/449 PCIe Card; 4-port, PCIe Serial Interface module that supports RS-422 protocols.
- RS-232 PCIe Card; 4-port, PCIe Serial Interface module that supports RS-232 protocol.
- RS-232; 8 or 4-port, PCIe Serial Interface module that supports Asynchronous serial protocol.

Link 11 Interface Card providing port interfaces with other TDL systems and modems utilizing MIL-STD 6011 protocol.

- ATDS or NTDS Data Terminal Set (DTS); one TDL-A or one TDL-B card can be used to interface with the JRE Software.

1U JRE DLT Option, 1553 Ethernet Bridge

- The embedded Alta ENET Ethernet 1553 Bridge option provides remoting of 1553 operations on 10/100/1000 Ethernet IP/User Datagram Protocol (UDP) LAN. It is a small, low power, rugged device that provides connectivity for up to two dual redundant 1553 bus and is ideal for remoting 1553 connections for in-field applications or point-to-point lab usage.

Contact

800.765.3197

jreinfo@saic.com

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