

# JOINT RANGE EXTENSION 3<sup>RD</sup> GENERATION



The latest in Joint Range Extension (JRE) Gateway (GW) hardware, the 3rd Generation (3G) rack mount solution will surpass your needs and carry you into the future.

The JRE 3G can be purchased in a portable transit case with an uninterruptable power source (UPS), keyboard and monitor or you can purchase the 3G on its own and mount it into any 19 inch rack. Like all other JREs the 3G can support a multitude of terminals (JTIDS and MIDS) as host, transparent gateway or as a terminal emulator. The 3G also supports Link-11 data reception and translation to Link-16 if the optional JRE Data Link Translator (DLT) is purchased. Based on your needs, the 3G can operate as a C2 or NonC2 system.

The JRE 3G configuration offers the most in a flexible and functional platform to provide the greatest number of options to our customer. As with all other JRE products, our goal is to supply the warfighter with an extensive, proven and certified capability in a tough, and if needed transportable package.

- JRE is software – users select hardware for flexibility, level of integration, and lower costs
- MIL-STD 6016F compliant for LINK 16; Full message set implementation; defined and undefined forwarding
- MIL-STD 3011C (Appendix A/B/C, including JREAP-C Multicast)
- Smart Forwarding, lowest data loss and latency of any fielded data link gateway with data loop protection
- Variable Message Format (VMF) – MIL-STD 2045-47001 B/C/D Ch1 provides K/J messaging forwarding
- SADL/EPLRS supports Host FAC implementation and ability to join Ground Network exchanging K05.1
- Fighter J12.6 Sensor Points of Interest (SPI), Mark Points/Points of Interest, Pointers and Heads-Up
- Electronic Warfare Parametric Data (J14.0) and Electronic Warfare Control/Coordination (J14.2)
- Display/Generate Weather over Target (J17.0) and J13.X Status/Platform Status messages
- Transmit/Receive Imagery (J16.0) using the JRE - JPEG, BMP, TIF, NITF – with Eagle Eye compression

## JRE 3G RACKMOUNT SOLUTION

OS	Client-Windows 10/Server RHEL Linux/Windows 10
SBC	2 Independent single board computers sharing a common backplane
64-bit	Yes
Clock Speed	3.2 GHz
Max Turbo Speed	3.6 GHz
Features	Hyper-Threading Technology, Intel Smart Cache Intel Turbo Boost Technology 2.0, Intel vPro Technology
Generation Manufacturer	Intel
Number of Cores Processor Number	4
Type	E3-1200v2
Memory	Intel Xeon®
Networking	16 GB DDR3-1600
Graphics card	3 Ethernet Interfaces - 10/100/1000BASE-T
Hard Drives	DirectX 11, OpenCL, DirectCompute, OpenGL 4.3
GPS Receiver	1 TB per SBC (Expandable to a total of 2 drives) M12M GPS Timing Receiver
Multi-Port Serial	RS-232/422/485 PCI Communication Card
1553 PCIe Card	1553, PCI 2-Channel, Semi-Rugged
RS-232	Circuit Card, 4 Port RS-232, PCI
RS-422	Circuit Card, 4 Port RS-422a/449, PCI
CD-ROM Optical Drive	DVD-RW
Redundant Power Supplies	2 X 800 Watt Power Supply
External Time Reference	ETR Card, Pulse Shaper, Dual Output
KVM	Keyboard/Video/Mouse Switch



## Contact

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