

Rapid Joint Incident Site Communications



Restoring command and control after a disaster.

Disasters often occur with little or no warning. The longer it takes to restore command and control, the greater the risk of human and material loss. Joint Incident Site Communications Capability (JISCC) is built for emergency preparedness allowing you to take a preemptive strike against disaster and its consequences.

The JISCC solution maximizes effectiveness by bridging first responder communications systems and delivering high-bandwidth capability anywhere.

JISCC provides satellite IP connectivity and RF network interoperability allowing command and control to be established hours after any disaster. JISCC terminals are a standard design and are interoperable with other U.S. Department of Defense network systems.

JISCC includes a voice interoperability gateway, enabling first responders to use handheld radios to communicate with each other. This improves situational awareness, increases cross-agency productivity, eliminates duplicate efforts and can even save lives.

The JISCC solution is easily transported to any disaster area so that critical communications can be promptly restored. JISCC terminals take voice, data and other critical services to ground zero and back, bridging communications gaps immediately.

The National Guard has taken delivery of 33 JISCC units which deliver a complete communications headquarters to the disaster area, enabling the establishment of command and control operations. The National Guard is trained on the same equipment that will be used in actual emergencies. JISCC is designed and packaged for short- or long-term

operations, so it is able to handle lengthy post-disaster requirements. The solution includes a 1.2 M Fly-Away antenna, a complement of VHF/UHF/800 Mhz/HF radios with connectivity software, IP phones, IT equipment and laptops and many accessories including video conferencing.

The JISCC solution is not only proven, installed quickly and deployed anywhere, but also easy to operate. Rockwell Collins' MaxView® Network Management System provides remote control and automation so on-site personnel do not need assistance configuring the network.

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GENERAL SPECIFICATIONS

Configuration	Fly-away portable terminal
Antenna size	1.2 M
Antenna control	Automatic or manual deploy, acquire and stow
Modem configuration	Single or multiple configurations available (Linkway, iDirect, EBEM, JIPM)
Data-rate per carrier	18 Mbps downstream, 4.2 Mbps upstream
Amplifier configuration	Multiple power and band configurations available
Upconverter configuration	Typically embedded in HPAs
Downconverter configuration	Typically embedded in LNBS
IF frequency	L band (950 – 2050 MHz)
Applications	TDMA, FDMA / SCPC
Compliance/certifications	FCC, Intelsat and PanAMSat compliant
Standard baseband IFL	100 ft. (other options available)
Management and control	Rockwell Collins software, MaxView

RF PARAMETERS

Rx (GHz)	10.95 – 12.75
Tx (GHz)	14.00 – 14.50
Number of ports	2
Polarization	Liner

ANTENNA SIZE (G/T – EIRP)

1.2 M	48.80 dB/W
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TYPICAL ELECTRICAL PARAMETERS

System voltage/frequency	95/265 VAC 1 ϕ /50 – 60 Hz
Power source inputs	1
Power consumption	90-256 VAC power supply, 10A peak, 2 continuous
UPS run-time	15 min.

TYPICAL MECHANICAL PARAMETERS

Installation time	< 60 min.
Military transport	HMMWV, other medium military transport, helicopter, Milair UH-60, C-130
Commercial transport	Land, air and sea
System weight	2000 lbs to 11,500 lbs depending on configuration
Transport cases	19 cases to trailer-load depending on configuration

TYPICAL ENVIRONMENTAL PARAMETERS

Temperature (operational)	-20° to 125°F
Temperature (storage)	-40° to 140°F
Winds (operational)	65 MPH
Winds (survivable)	80 MPH

OPTIONAL EQUIPMENT

Extended IFL	Available
IFL Options	Fiber with TFOCA II connectors, copper

Integrated test equipment	Available
Back-up generator	Available
Modulation	Advanced modulation solutions (modem dependant)

ACCESSORY EQUIPMENT

Telephones	Cisco® 7941 Phones
Video conferencing	Polycom® VSX 7000e; Samsung™ 32" LCDs
Generator	7.5 KW; 120/240 V; 60 Hz; Single Phase
Heater	115 V; 60 Hz; Single Phase
ECU	Operational Temp Range -40°F to 120°F
Laptops	Dell Intel® Core™ 2 Duo Processor @ 2 GHz; 1 GB; 60 GB

Support Services

We provide a complementary suite of services to manage, maintain and optimize your JISCC solution so that it reaches peak performance. Services include:

- ▶ Training: Rockwell Collins offers hands-on training on your equipment. Thorough documentation becomes a trouble-shooting tool in the field.
- ▶ Field Support: Rockwell Collins provides on-site field technicians when needed.
- ▶ Network Operations Center: This center provides 24 x 7 help desk support and remote monitoring and management of your network.
- ▶ Logistics Engineering: Rockwell Collins can provision your spare parts inventory, which supports long-term operations.

Accessory Equipment

Options include: additional phones and laptops, a video conferencing system, power generation and environmental control units and even a tented shelter, packaged in a standard trailer that can be towed or air-lifted to the incident scene.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

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Rockwell Collins delivers smart communication and aviation electronic solutions to customers worldwide. Backed by a global network of service and support, we stand committed to putting technology and practical innovation to work for you whenever and wherever you need us. In this way, working together, we build trust. Every day.

For more information contact:

Rockwell Collins
400 Collins Road NE
Cedar Rapids, Iowa 52498
800.321.2223
319.295.5100
Fax: 319.378.1172
E-mail: learnmore@rockwellcollins.com
Web site: www.rockwellcollins.com

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