

IPCRESS (TECHNICAL SPECIFICATION)

TECHNICAL CHARACTERISTICS

Certification	CESG High Grade COMSEC standard (Top Secret)
	Common Criteria (ISO 15408) EAL3
TEMPEST	Certification to AMSG-720B
EMC	Compliant to civil and military (DEF STAN 59-41) EMC standards
Safety	Compliant to BS EN 60950

Environmental

Temperature	Operating:	0 deg C to +40 deg C
	Storage:	-20 deg C to +55 deg C
IPCRESS has successfully undergone a wide range of environmental tests in accordance with DEF STAN 00-35, including Vibration, Pulse Shock, Drop and topple, high temperature (high and low humidity), low temperature and low air pressure air transportation. Contact SELEX Communications for further details.		
Designed for civil and strategic military deployment. Design uses forced air cooling, with integral fans and venting.		
Reliability	Approximately 20,000 hours in a benign military environment	
Maintainability	Modular design for ease of maintenance	
	Extensive Built In Test (BIT)	
	30 minute 1st line MART	
		2 hour MTTR

Physical Form

Designed for desk mounting or 19" rack mount using removable flanges		
Overall Dimensions	Width:	446 mm excluding handles and flanges
	Depth:	563 mm
	Height:	89 mm (2U)
	Weight:	11Kg

Power

Integral PSU Module providing AC and DC operation		
AC:	110/115 V 50/60 Hz Single Phase	
	200/250 V 50/60 Hz Single Phase	
DC:	19-60 V DC either polarity with built in surge protection	
Dissipation:	90 W max	
Back up of critical data by internal power source (super-capacitor) in the event of external power failure, with automatic return to full on-line operation		



ICMP	Configurable intrinsic secure support for ICMP, including Path MTU discovery, sending/receiving of Echo Requests ("Pings"), and detection of remote peer unreachability
IPV4	Compatible with IPv4 networks (Red, Black or both) by use of standard IPv4/IPv6 transition mechanisms operating in external COTS network elements for example IPv4-over-IPv6 tunnels or IPv6-over-IPv4 tunnels
Quality Of Service (QOS)	Future proofed hardware design tailored for support of IP QOS by embedded software upgrade path
Power	Integral dual standard (AC/DC) auto-ranging power unit Internal Back-up power source supports retention of critical data, such as crypto variable data, for at least one hour in the event of external power outage, with automatic return to on-line operation
Built In Test (BIT)	Extensive BIT executes at start-up or upon request thereafter, providing assurance of fault free operation. Critical functions are subject to continuous checking during on-line operation. IPCRESS maintains a full internally held BIT log, accessible by a local or remote manager
Security audit and accounting	Security relevant events are automatically recorded to an internally held Audit log, for examination either locally or remotely at the NMC. The NMC is automatically prompted if the Audit log is reaching the limit of its capacity in order that an upload can be instigated
Community of interest	A single interoperable IPCRESS community can consist of up to 2000 equipments A list of peer IPCRESS can be configured as an equipment management action or can be downloaded from the NMC on start-up