

**Ruggedized for extreme mission requirements.  
VME64X for embedded applications.**



### AltaSec KG-250A At-A-Glance

#### HAIZE IS Compliant, Current & Future Versions

- Updates via software download
- Fully interoperable with KG-250 & all future releases of HAIZE IS
- HAIZE IS v1.3.5
- HAIZE IS v3 (IPv4/IPv6 dual stack) via SW download<sup>1</sup>

#### Programmable Crypto

- Supports algorithm upgrade
- Key management and encryption agile
- FIREFLY, pre-placed key, crypto ignition key
- Modular architecture supports development of variants

#### High Performance Throughput

- 100 Mbps ethernet copper (RED) & 100 Mbps ethernet fibers (BLACK)
- 200 Mbps IP aggregate
- Robust networking features
- Protects RED addressing information
- Multicast capable

#### Light Weight, Compact Size

- VME64X card stack (6U x 160mm x 2 slots /9.2" x 6.3" x 1.6")
- DC power via VME64X backplane
- Weight 4.9 lbs.

#### Easy to Use

- Field Tamper Recoverable<sup>2</sup>
- Dynamic Discovery
- Secure browser-based management
- Plug & play in-line network encryptors

#### Premium Secure Networking Solution

- Full Mesh Network capability in a portable package
- 3-Year HW & SW warranty
- Free training
- Low cost of ownership

## SPECIFICATIONS

### NETWORKING FEATURES & PROTOCOLS

<b>Protocols Supported</b>	TCP, UDP, IPv4/IPv6 <sup>1</sup> Dual Stack, ICMP, IGMP, ARP
<b>Networking Features</b>	Dynamic IP addressing, dynamic key management, red address confidentiality, dynamic discovery
<b>Management</b>	HTTPS browser-based management, VINE manager
<b>Multicast</b>	IGMP on red and black subnet
<b>Quality of Service (QoS)</b>	Type of service octet bypass
<b>Fragmentation</b>	Supports fragmentation and header options for red IP packets

### RED DATA INTERFACE — ETHERNET

<b>Electrical/Mechanical</b>	IEEE 802.3; 10/100 Mbps copper, M12 (10/100 base T compatible)
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### BLACK DATA INTERFACE — ETHERNET

<b>Electrical/Mechanical</b>	IEEE 802.3; 10/100 Mbps fiber, ST
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### COMSEC CHARACTERISTICS

<b>Algorithms</b>	US type 1
<b>Key Fill Interface</b>	DS-101
<b>Dynamic Key Generation</b>	FIREFLY
<b>Flexibility</b>	Modular, reprogrammable architecture
<b>Crypto Ignition Key</b>	CIK Removal to UNCLASSIFIED CCI

### PHYSICAL

<b>Dimensions (WHD)</b>	VME64X (6U x 160mm x 2 Slots) (9.2" x 6.3" x 1.6")
<b>Weight</b>	4.9 lbs. (2.2Kg)
<b>Power</b>	+5 VDC and +3.3 VDC

### NOTES

- <sup>1</sup> IPv6 available with future HAIPe IS v3 sw download
- <sup>2</sup> With NSA approval
- <sup>3</sup> Call for details

### RELIABILITY AND MAINTENANCE

<b>Predicted MTBF</b>	150,000 hours (ground benign) 15,000 Hours (airborne inhabited cargo)
<b>Predicted MTTR</b>	15 minutes
<b>TEMPEST</b>	NSTISSAM
<b>Other</b>	Extensive power up and online BIT

### ENVIRONMENT

<b>Operating Temperature</b>	-32°C to +70°C (must maintain Rail temperature at or below +81°C)
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<b>Non-Operating Temperature</b>	-46°C to +71°C
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<b>Operating Altitude</b>	Up to 50,000 Ft.
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<b>Non-Operating Altitude</b>	Up to 70,000 Ft.
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<b>Non-operating rapid decompression</b>	8,000 ft to 70,000 Ft. in 15 seconds
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<b>Shock</b>	MIL-STD-810F 516.5 Procedure I SRS curve: 5g to 80g from 10 Hz to 30 Hz, 80g from 30 Hz to 200 Hz, 80 to 500g from 200 Hz to 1000 Hz, 500g from 1000 Hz to 2000 Hz
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<b>Vibration</b>	MIL-STD-810F 514.5 Procedure I Cat 24: 0.04g <sup>2</sup> /Hz from 20 Hz to 2000 Hz for 15 minutes each on 3 main orthogonal axes
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	MIL-STD-810F, 514.5, procedure I, 0.05g <sup>2</sup> /Hz from 5 Hz to 20 Hz, 0.05g <sup>2</sup> /Hz to 0.027g <sup>2</sup> /Hz from 20 Hz to 63 Hz, 0.03g <sup>2</sup> /Hz from 64 Hz to 72 Hz, 0.025g <sup>2</sup> /Hz to 0.022g <sup>2</sup> /Hz from 72 Hz to 96 Hz, 0.06g <sup>2</sup> /Hz from 97 Hz to 107 Hz, 0.021g <sup>2</sup> to 0.005g <sup>2</sup> /Hz from 108 Hz to 400 Hz, 0.005g <sup>2</sup> /Hz from 400 Hz to 2000 Hz
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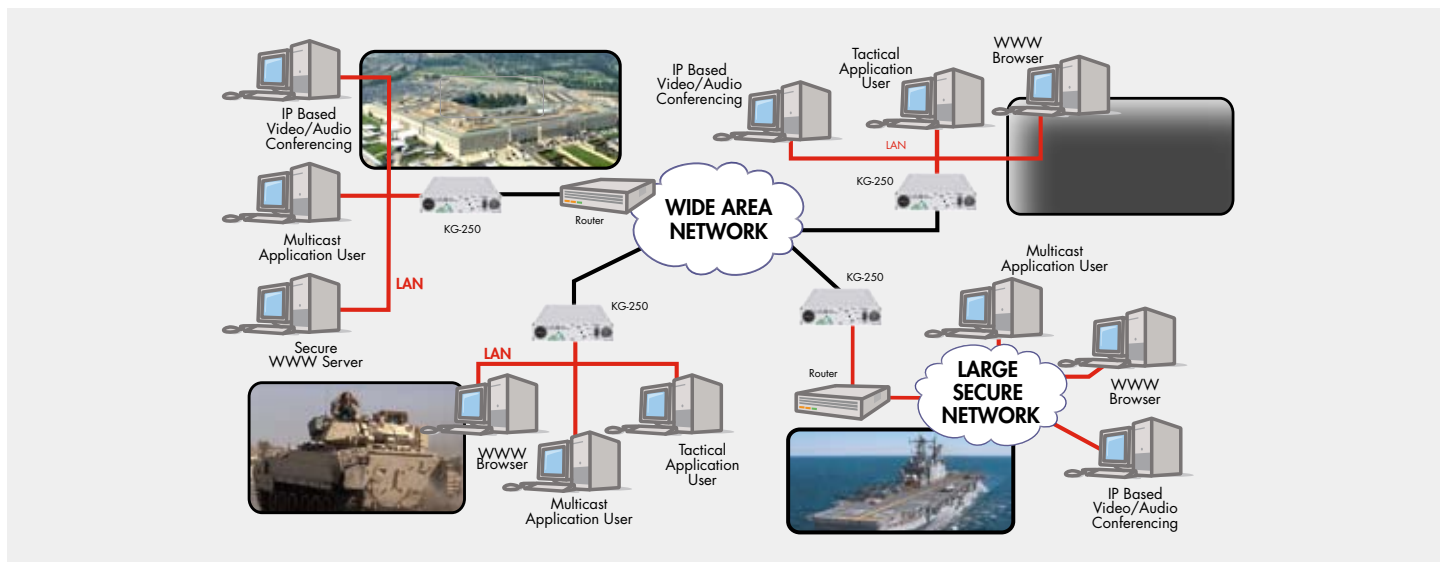
<b>Vibration @Temperature Operational</b>	0.057g <sup>2</sup> /Hz, 20-2000 Hz @ -32°C to +65°C Per MIL-STD-810F, Method 520.2, Procedure III
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<b>Temperature Shock</b>	At transitions of +15°C to 71°C and +15°C to -46°C, 5 minute max transition time, Per MIL-STD-810F, Method 503.4, Procedure I
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<b>Humidity (Non-Condensing)</b>	95%
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### CERTIFICATION

NSA Certified for TS/SCI and below



### Ordering Information

**NSN** 5810-01-524-6615CA  
**Part Number** SI-022410-0000

Available for order through ISSP, IDIQ, and ViaSat

### Sales

6155 El Camino Real  
Carlsbad, CA 92009  
**Tel** 888.ViaSat.1  
(888-842-7281)  
**Fax** 760.683.6815  
**Email** insidesales@viasat.com

### Technical Support

**Tel** 760.476.4754  
888.ViaSat.4  
**Fax** 760.929.3938  
**Email** altasec@viasat.com  
**Web** www.viasat.com/secure

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