



# S14G SQ System

*The Dualos S14GSQ –Advanced Durabook  
Semi-Rugged AI, Cyber, Graphics Laptop*



*The Dualos Secure Quiet Multi-module S14 System*

The Dualos **S14G Secure Quiet** (SQ) S14i specifications were designed to assist AI, Cyber and Graphics Workstation users with being effective while in the field and assure that no unexpected transmissions occur that may give away confidential or proprietary information. Further aided by Stealth Mode, a NIST compliant PW protected BIOS, BIOS level I/O port usage control, a SmartCard interface and a well characterized 461 certification, makes this system ideal for sensitive area use in lab, aircraft and field requirements.

Further, the S14SQ has a DynaVue® Direct Sunlight readable display that is also capable of Night Vision usage at the push of a button. This high performance of the i7 processor coupled with the GTX1050 GPU offers an extremely rugged S14G system with 2 Ethernet ports, RS-232/422/485 port, PCMCIA or ExpressCard, various display ports and even optionally to ARINC 429, ARINC 664, or Mil-Std-1553. Combine all this with hot-swap batteries and you can be out in the field for a while.

Contact Dualos for more information at [sales.dualos.com](http://sales.dualos.com). We are Durabook's exclusive commercial sector Aerospace and Defense Distribution Channel.



## Outstanding Features

- DynaVue® Direct Sunlight/Night Vision Display
- MIL-STD-810H Certified
- Fanless High Performance i7 Processors
- *Secure Quiet*, TPM, Stealth & NIST PW BIOS
- 64GRAM and GTX1050 Graphics
- Expandable in Numerous Way
- Hot-Swap Battery Technology

## Dualos Durabook Systems

- Specified for Aerospace & Defense Use
- Ideal for AI, Cyber or Graphics Workstation
- Can be Purchased with I/O & Software
- PCMCIA, ExpressCard & USB based I/O
- Windows 10 or Linux based

## Applications

- Direct Sunlight or Night Vision Computing
- Mobile Cyber, AI or Graphics Workstation
- Lab, Field & On-Platform Test
- LRU & Bus Design/Test
- Data Loading & Production Test
- Engine Test Stands
- Integration Test
- Missile Launch Tests
- Operational Analysis
- Systems Simulation & Test
- Field Maintenance Test & Simulation
- On Platform Simulation and Analysis

## Benefits

- Same System for Sunlight & Night Vision
- High Performance and Easily Expandable
- Long System and Support Life
- Easy to Use in Lab and On Platform
- Highly Reliable, Lower Damage Risk
- All in One System Easier to Procure





# S14G SQ System

## AI, Cyber, Graphics Secure Quiet System Specification

<b>S14 SQ Model Number</b>	• <b>S14SQ</b>
<b>DISPLAY</b>	<ul style="list-style-type: none"> <li>• DynaVue® Direct Sunlight/Night Vision Display 1000nits brightness; at touch of button 1.7nits 14.0" FHD (1920 x1080)</li> <li>• 4 mode touch screen – Finger, Glove, Stylus, Water Capacitive multi-touch sensor</li> <li>• HDMI, DP and VGA Signals Out</li> </ul>
<b>PROCESSOR</b>	<ul style="list-style-type: none"> <li>• Intel Core™ i7-1165G7 (11th Gen) 12MB cache 2.8GHz-4.7GHz Turbo Boost processor</li> <li>• Optional Intel Core™ i7-1185G7 vPro™ (11th Gen) [minimum order quantity required]</li> </ul>
<b>OPERATING SYSTEM</b>	<ul style="list-style-type: none"> <li>• Windows® 10 Pro 64-bit</li> <li>• Option Linux (Inquire)</li> </ul>
<b>GRAPHICS</b>	NVIDIA® GEFORCE GTX 1050
<b>MEMORY</b>	2 slots 64GB 2400MHz DDR4
<b>STORAGE</b>	<ul style="list-style-type: none"> <li>• 1TB Secure/Quick Remove SSD</li> <li>• Optional OPAL 2.0 SS</li> <li>• Optional 2nd storage (SSD)</li> </ul>
<b>SECURITY</b>	<ul style="list-style-type: none"> <li>• Intel®vPro™ Technology (per CPU options)</li> <li>• Secure Quiet – no accidental transmissions</li> <li>• TPM 2.0</li> <li>• NIST compliant password protected BIOS</li> <li>• Firmware Controlled Ports</li> <li>• Easily removable SSD</li> <li>• Smart card reader default</li> <li>• Stealth mode</li> <li>• Night vision mode</li> <li>• Kensington lock port</li> <li>• Optional fingerprint scanner</li> </ul>
<b>KEYBOARD</b>	<ul style="list-style-type: none"> <li>• Sealed Backlit Keyboard</li> <li>• 2 User-definable buttons</li> </ul>
<b>COMMUNICATIONS</b>	Integrated 10/100/1000 Ethernet Two Ports
<b>MEDIA BAY</b> (One Module at a time)	<ul style="list-style-type: none"> <li>• Multi-Bay Functions – Swappable Modules</li> <li>• DVD-RW Standard</li> <li>• 2nd RJ-45 &amp; RS232 serial port</li> <li>• Optional PCMCIA or ExpressCard</li> <li>• Optional 2nd battery</li> <li>• Optional 2nd storage (SSD)</li> </ul>
<b>INTERFACE PORTS</b>	<ul style="list-style-type: none"> <li>• USB 3.2 Gen 2 (type A) x 2</li> <li>• USB 3.2 Gen 2 (type C, plus DP) x 1</li> <li>• USB 2.0 (type A) x 1</li> <li>• Smart card reader x 1</li> <li>• Optional ExpressCard 54 &amp; PCMCIA Type II</li> <li>• 10/100/1000 Ethernet (RJ45) x 2</li> <li>• Audio in/out (combo jack) x 1</li> <li>• VGA port (D-sub,15-pin) x 1</li> <li>• HDMI port (type A) x 1</li> <li>• RS232/422/485 Serial port: D-sub, 9-pin</li> <li>• Docking connector (41-pin Pogo) x 1</li> <li>• Micro-SDXC card Slot x 1</li> <li>• SIM card Slot x 1</li> <li>• DC-In jack x 1</li> </ul>

<b>DURABILITY</b>	<ul style="list-style-type: none"> <li>• MIL-STD 810H certified (Drop, Shock, Vibration, Altitude, Freeze/Thaw, High/Low Temperature, Temperature Shock, Humidity)</li> <li>• 4' drop 26 faces</li> <li>• IP 53 certified</li> <li>• Fanless Cooling Design</li> <li>• Aluminum-magnesium alloy chassis</li> <li>• Port covers</li> <li>• Removable quick-release battery and storage drive</li> <li>• Sunlight/Night Vision readable display</li> <li>• Up to 25 hours operation on 1 battery swap</li> <li>• NOTE: Addition of 3<sup>rd</sup> party products may affect certification</li> <li>• Typical 7-10yr+ product life</li> </ul>
<b>ENVIRONMENT</b>	<ul style="list-style-type: none"> <li>• Temperature Operating: - 20°C ~ 60°C / - 4°F ~ 140°F Storage: -51°C ~ 71°C / -60°F ~ 160°F</li> <li>• Humidity: 5% ~ 95%</li> </ul>
<b>DIMENSION &amp; WEIGHT</b>	<ul style="list-style-type: none"> <li>• Size - 350 mm (L) x 282 mm (W) x 38 mm (H)</li> <li>• Weight – 2.3 kg</li> <li>Note: Weight and Size vary with options</li> </ul>
<b>POWER</b>	<ul style="list-style-type: none"> <li>• AC adapter: 90W, 100-240V, 50Hz-60Hz</li> <li>• Optional AC adapter: 120W, 100-240V, 50Hz-60H</li> <li>• Hot Swap Battery Technology – up to 5 minutes</li> <li>• MobileMark Battery 2014 Batter life test Main battery Li-Ion 4700mAh, 10 hours Optional 2nd battery Li-Ion 4700mAh, 10 hours</li> </ul>
<b>WARRANTY</b>	3-year Standard Limited Warranty
<b>OPTIONAL INTERFACES</b>	<ul style="list-style-type: none"> <li>• Mil-Std-1553 Analyzer</li> <li>• ARINC 429, CSDB, 561 Analyzer</li> <li>• ARINC 664 Analyzer</li> <li>• Avionics cards</li> <li>• Software Defined Radio</li> <li>• GPS - UBLOX-NEO-M8N</li> <li>• Extreme low latency WIFI</li> <li>• Bluetooth</li> <li>• 4G LTE Broadband</li> <li>• WWAN, WLAN Antenna</li> <li>• Camera Systems</li> <li>• Full Audio Com</li> <li>• Mobile Mounts</li> </ul>

**NUMEROUS MODELS**

**The S14G SQ is designed specifically for Aerospace and Defense applications.** Additionally, there are many other Z14i systems available to the market. Other processors, memory & storage sizes, interfaces, integrated systems, and even custom designs are available. Please consult Dualos for more information.



Distributor and Architect Partner  
[Sales@dualos.com](mailto:Sales@dualos.com)  
 (253)750-5125; toll free 888-775-7831  
 Tacoma, WA 98402