# dualos

# S14 SQ System

## DURABOOK

### *The Durabook S14 – The Advanced Semi-Rugged Laptop*



*The Dualos Secure Quiet Multi-module S14 System*

The Dualos **Secure Quiet** (SQ) S14i specifications were designed to help 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, extremely rugged S14 system is ready to provide interface to many I/O connections with its 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 (for up to 20hours of operation on one swap) and you can be out in the field for a while.

Contact Dualos for more information at 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
- Up to 64GRAM and GTX1050 Graphics Options
- 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

# S14 SQ System

## Secure Quiet System Specification

| S14 SQ Model Number | • **S14SQ** |
|---|---|
| **DISPLAY** | • DynaVue® Direct Sunlight/Night Vision Display 1000nits brightness; at touch of button 1.7nits 14.0" FHD (1920 x1080)<br>• 4 mode touch screen – Finger, Glove, Stylus, Water Capacitive multi-touch sensor<br>• HMDI, DP and VGA Signals Out |
| **PROCESSOR** | • Intel Core™ i7-1165G7 (11th Gen) 12MB cache 2.8GHz-4.7GHz Turbo Boost processor<br>• Optional Intel Core™ i7-1185G7 vPro™ (11th Gen) [minimum order quantity required] |
| **OPERATING SYSTEM** | • Windows® 10 Pro 64-bit<br>• Option Linux (Inquire) |
| **GRAPHICS** | • Intel® Iris XE<br>• Optional NVIDIA® GEFORCE GTX 1050 |
| **MEMORY** | 2 slots 16GB 2400MHz DDR4 (64GB Max optional) |
| **STORAGE** | • 256GB Secure/Quick Remove SSD<br>• Optional 512GB / 1TB SSD - more<br>• Optional OPAL 2.0 SS<br>• Optional 2nd storage (SSD)[1] |
| **SECURITY** | • Intel®vPro™ Technology (per CPU options)<br>• *Secure Quiet – no accidental transmissions*<br>• TPM 2.0<br>• NIST compliant password protected BIOS<br>• Firmware Controlled Ports<br>• Easily removable SSD<br>• Smart card reader default<br>• Stealth mode<br>• Night vision mode<br>• Kensington lock port<br>• Optional fingerprint scanner |
| **KEYBOARD** | • Sealed Backlit Keyboard<br>• 2 User-definable buttons |
| **COMMUNICATIONS** | Integrated 10/100/1000 Ethernet (2nd Optional) |
| **MEDIA BAY** (One Module at a time Options) | • Multi-Bay Functions – Swappable Modules<br>• DVD-RW (Standard)<br>• PCMCIA or ExpressCard<br>• 2nd battery<br>• 2nd storage (SSD)<br>• 2nd RJ-45 & RS232 serial port |
| **INTERFACE PORTS** | • USB 3.2 Gen 2 (type A) x 2<br>• USB 3.2 Gen 2 (type C, plus DP) x 1<br>• USB 2.0 (type A) x 1<br>• Smart card reader x 1<br>• ExpressCard 54 OR PCMCIA Type II (Option)<br>• 10/100/1000 Ethernet (RJ45) x 1<br>• Audio in/out (combo jack) x 1<br>• VGA port (D-sub,15-pin) x 1<br>• HDMI port (type A) x 1<br>• RS232/422/485 Serial port: D-sub, 9-pin x 1<br>• Docking connector (41-pin Pogo) x 1<br>• Micro-SDXC card Slot x 1<br>• SIM card Slot x 1<br>• DC-In jack x 1 |

| **DURABILITY** | • MIL-STD 810H certified (Drop, Shock, Vibration, Altitude, Freeze/Thaw, High/Low Temperature, Temperature Shock, Humidity)<br>• 4' drop 26 faces<br>• IP 53 certified<br>• Fanless Cooling Design<br>• Aluminum-magnesium alloy chassis<br>• Port covers<br>• Removable quick-release battery and storage drive<br>• Sunlight/Night Vision readable display<br>• Up to 25 hours operation on 1 battery swap<br>• NOTE: Addition of 3rd party products may affect certification<br>• Typical 7-10yr+ product life |
|---|---|
| **ENVIRONMENT** | • Temperature Operating: - 20°C ~ 60°C / - 4°F ~ 140°F Storage: -51°C ~ 71°C / -60°F ~ 160°F<br>• Humidity: 5% ~ 95% |
| **DIMENSION & WEIGHT** | • Size - 356 mm (L) x 280 mm (W) x 50 mm (H)<br>• Weight - 3.6 kg Note: Weight and Size vary with options |
| **POWER** | • AC adapter: 90W, 100-240V, 50Hz-60Hz<br>• Optional AC adapter: 120W, 100-240V, 50Hz-60H<br>• Hot Swap Battery Technology – up to 5 minutes<br>• MobileMark Battery 2014 Batter life test Main battery Li-Ion 4700mAh, 10 hours Optional 2nd battery Li-Ion 4700mAh, 10 hours |
| **WARRANTY** | 3-year Standard Limited Warranty |
| **OPTIONAL INTERFACES** | • Mil-Std-1553 Analyzer<br>• ARINC 429, CSDB, 561 Analyzer<br>• ARINC 664 Analyzer<br>• Avionics cards<br>• Software Defined Radio<br>• GPS - UBLOX-NEO-M8N<br>• Extreme low latency WIFI<br>• Bluetooth<br>• 4G LTE Broadband<br>• WWAN, WLAN Antenna<br>• Camera Systems<br>• Full Audio Com<br>• Mobile Mounts |
| **NUMEROUS MODELS** | **The S14 SQ is designed specifically for Aerospace and Defense applications.** Additionally, there are many other S14i 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. |

## dualos

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

## DURABOOK
Prepared for the Unexpected