dualos

X14i SQ System

DURABOOK

The Durabook Z14i – The World's Toughest Fully Rugged Laptop

The Dualos Secure Quiet X14i System

The Dualos **Secure Quiet** (SQ) X14i 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 X14 has a DynaVue® Direct Sunlight readable display that provides Night Vision usage at the push of a button. This high performance, extremely rugged Z14i system is ready to provide interface to many I/O connections with its 2 Ethernet ports, RS-232/422/485 port, PCMCIA, 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 26hours 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
- MIL-STD-461G Certified
- Fanless High Performance i7 Processors
- *Secure Quiet*, TPM, Stealth & NIST PW BIOS
- Expandable in Numerous Way
- Hot-Swap Battery Technology

Dualos Durabook Systems

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

Applications

- Direct Sunlight Computing
- Night Vision Computing
- 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
- Peace of Mind Accident Warranty
- 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

Secure Quiet System Specification

Z14i SQ Model Number	• **Z4A2B22XAJAX**
DISPLAY	• DynaVue® Direct Sunlight/Night Vision Display 1000nits brightness; at touch of button 1.7nits 14.0" FHD (1920 x1080) • 4 mode touch screen – Finger, Glove, Stylus, Water Capacitive multi-touch sensor • HMDI, DP and VGA Signals Out
PROCESSOR	• Intel Core™ i7-8550U (8th Gen) 8MB cache 1.8GHz-4.0GHz Turbo Boost processor • Optional Intel Core™ i7-8650U vPro™ [minimum order quantity required]
OPERATING SYSTEM	• Windows® 10 Pro 64-bit • Option Linux (Inquire)
GRAPHICS	• Intel® UHD Graphics 620
MEMORY	2 slots 16GB 2400MHz DDR4 (32GB Max optional)
STORAGE	• 256GB Secure/Quick Remove SSD • Optional 512GB / 1TB SSD - more • Optional OPAL 2.0 SS • Optional 2nd storage (SSD)[1]
SECURITY	• Intel®vPro™ Technology (per CPU options) • *Secure Quiet – no accidental transmissions* • TPM 2.0 • NIST compliant password protected BIOS • Firmware Controlled Ports • Easily removable SSD • Smart card reader default • Stealth mode • Night vision mode • Kensington lock port • Optional fingerprint scanner
KEYBOARD	• Sealed Backlit Keyboard • 2 User-definable buttons
COMMUNICATIONS	Integrated 10/100/1000 Ethernet – 2 ports
MEDIA BAY (One Module at a time)	• Multi-Bay Functions – Swappable Modules • DVD-RW Standard • Optional 2nd batter • Optional 2nd storage (SSD)
INTERFACE PORTS	• USB 3.2 Gen 2 (type A) x 2 • USB 3.2 Gen 2 (type C) x 1 • USB 2.0 (type A) x 1 • Smart card reader x 1 • ExpressCard 54 & PCMCIA Type II • 10/100/1000 Ethernet (RJ45) x 2 • Audio in/out (combo jack) x 1 • VGA port (D-sub,15-pin) x 1 • DP port x 1 • HDMI port (type A) x 1 • RS232/422/485 Serial port: D-sub, 9-pin • RS232 Serial port: D-sub, 9-pin • Docking connector (41-pin Pogo) x 1 • Micro-SDXC card Slot x 1 • SIM card Slot x 1 • DC-In jack x 1 • Optional military-grade I/O connectors

DURABILITY	• MIL-STD 810H certified (Drop, Shock, Vibration, Rain, Dust, Altitude, Freeze/Thaw, High/Low Temperature, Temperature Shock, Humidity, Explosive Atmosphere, Solar Radiation, Salt Fog, Fungus Resistance) • MIL-STD 461G certified (Conduction, Radiation, Conducted Susceptibility, Radiated Susceptibility) • ANSI/ISA 12.12.01-2000, Class I, Division 2 • 6' drop 26 faces • IP 65 certified • Fanless Cooling Design • Aluminum-magnesium alloy chassis • Port covers • Removable quick-release battery and storage drive • Sunlight/Night Vision readable display • Up to 25 hours operation on 1 battery swap • NOTE: Addition of 3rd party products may affect certification • 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 • Humidity: 5% ~ 95%
DIMENSION & WEIGHT	• Size - 356 mm (L) x 280 mm (W) x 50 mm (H) • Weight - 3.6 kg Note: Weight and Size vary with options
POWER	• AC adapter: 90W, 100-240V, 50Hz-60Hz • Optional AC adapter: 120W, 100-240V, 50Hz-60H • Hot Swap Battery Technology – up to 5 minutes • MobileMark Battery 2014 Batter life test Main battery Li-Ion 7800mAh, 16 hours Optional 2nd battery Li-Ion 4700mAh, 9 hours
WARRANTY	3-year 3D Accidental Damage Limited Warranty
OPTIONAL INTERFACES	• Mil-Std-1553 Analyzer • ARINC 429, CSDB, 561 Analyzer • ARINC 664 Analyzer • Avionics cards • Software Defined Radio • GPS - UBLOX-NEO-M8N • Extreme low latency WIFI • Bluetooth • 4G LTE Broadband • WWAN, WLAN Antenna • Camera Systems • Full Audio Com • Mobile Mounts
NUMEROUS MODELS	**The Z4A2B22XAJAX 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.

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Prepared for the Unexpected