ORION 15A **SMART DISPLAY**

All-in-One Touchscreen Computer: Rugged, Compact, Portable



zmicro.com/Solutions/All-In-One

Portable and Compact Single-Board Computer

Combine a 1080p resolution PCAP touchscreen display and an Intel® Core™ SBC and you have a compact and portable all-in-one solution. The smart display gives you the ability to reduce weight and leverage the latest display and computing technology in a compact and rugged package, simplifying your computer and display needs.

Rugged and Reliable

The Orion Smart Display is designed and tested to meet full MIL-SPEC requirements, creating a reliable and rugged allin-one display. Tested and passed at +65° C for 120 minutes at operating temperature, the Orion can effectively dissipate heat in a transit case without shutting down. Field reliability is something that you can count on, making interruptions due to electronic failure a headache of the past.

Harness the Power of Edge **Computing in a Compact Chassis**

Using an embedded computer, ZMicro has integrated the ability to capture HD-SDI video, with the option of storing data in a removable SD card. The Orion 15A combines video capture and compute capability in a single lightweight, deployable package.

HIGHLIGHTS

- 11th Gen Intel® Iris® XE graphics with 500GB internal storage and TPM 2.0
- 15.6" low powered LED LCD
- 1920 x1080 (1080p) resolution
- Lightweight machined aluminum chassis
- Ultra-Bright display with optical bonding
- Supports 2x HD-SDI video input & capture with optional M.2 add-in card and software
- PCAP Touchscreen enabled with bare hand or capacitive capable gloved hand
- 12-36V DC power input with MIL-DTL-5015 power connector
- Passed thermal testing at +70° C for 30 minutes at storage and +65° C for 120 minutes at operating
- Easily accessible and replaceable CMOS battery

Ideal for Ground Applications

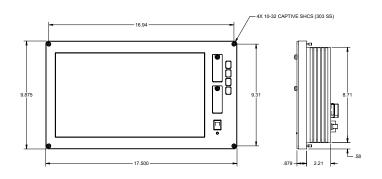
FOR MORE INFO

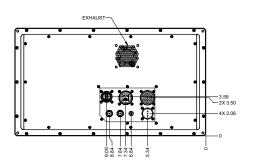
Contact us at sales@zmicro.com or call 858.831.7000.

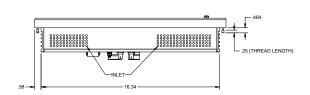
ORION 15A ALL IN ONE DISPLAY To see all of our display options, visit zmicro.com/displays.



MECHANICAL OUTLINE









TECHNICAL SPECIFICATIONS

SIZE & WEIGHT

POWER

SPECIFICS

Dimensions Weight **Power Supply**

Power Consumption Power Connector

Internal SBC

Internal Storage **RAM**

Panel Size Native Resolution Backlight Brightness **Panel Options**

Connectors

Font Display Features

Mounting

Lag Time

ENVIRONMENTAL

Operating Temperature Storage Temperature Humidity

Operating Altitude

Non-operating Altitude

Vibration

Shock & Crash Safety

EMI / EMC

Quality

9.88" H x 17.50" W x 3.79" D

12.2 lbs.

12-36V DC, 14.7-4.9A, 176W Max 70 W @ 100% brightness

MIL-DTL-5015

11th Gen Intel® Iris® XE graphics TPM 2.0

500GB NVME

16 GB or 32GB options available 15.6" active viewing area

1920 x 1080

LED

1000 cd/m2 (native brightness: may vary due to optical stack bonding Optically bonded PCAP touchscreen usable with bare hand and capacitive

capable gloved hand

4x USB 2.0 via MIL connector, 1x USB 3.1 Gen 1 via MIL connector, 1x RS-232 serial port, 1x USB for Maintenance/API Interface, 2x BNCs connectors for

HD-SDI, 1x RJ-45 in MIL Shell

Removable SD Card slot, replaceable CMOS battery

Corner mount with captive screws

> 25 ms

-20° to +65° C for 120 minutes* -30° to +70° C for 30 minutes*

MIL-STD-810G, Method 507.5, Procedure II*

Up to 10,000 ft. MIL-STD-810G, Method 500.5, Procedure II* Up to 40,000 ft. MIL-STD-810G, Method 500.5, Procedure I*

MIL-STD-810G, Method 514.6, Procedure I*

MIL-STD-810G, 30gs, 11ms, saw-tooth, Procedure I: Functional Shock* MIL-STD-461G: Radiated: RE101 (Army Limits), RE102 (Aircraft > 25m), RS101,

RS103 (up to 60V/m). Conducted: CE101 (Curve #2), CE102, CS101,

CS114 (Aircraft 10kHz-200MHz), CS115, CS116, CS118

AS9100:2016 and IPC/ISO 9001:2015 and applicable sections of the

MIL-HDBK-454

OTHER

^{*} ZMicro's products are designed to meet or exceed environmental specifications. Test results are configuration dependent. For specific test results, please contact your sales representative. ZMicro, Inc. is an AS9100:2016 & ISO 9001:2015 certified company. Product information and technical data provided are typical of standard configurations of the described products. Measured results may vary slightly between units This information is subject to change without notice. For more information, or the latest version of this product sheet, please visit our website www.zmicro.com.