



ACB300 MISSION COMPUTER

PORTABLE RUGGED COMPUTING SOLUTION

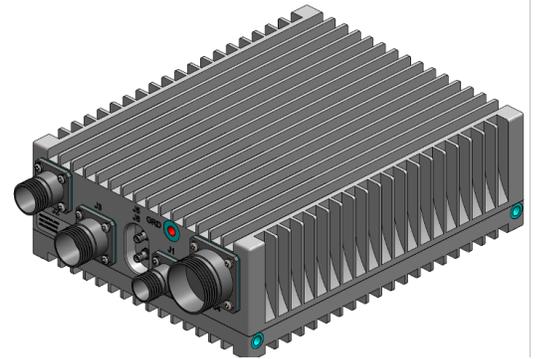


ACB300

PORTABLE RUGGED COMPUTING SOLUTION

The ACB300 is a rugged mission computer designed for applications where compact, high-performance computing is required. It is suitable for fixed-mount installations as well as wearable and unmanned vehicle platforms, providing a robust computing environment that supports a wide range of system interfaces. The architecture allows integration with complementary handheld displays or connection to external display monitors, enabling flexible system configurations.

Optimized for size, weight, and power (SWaP), the ACB300 is lightweight and compact, with a mass of approximately 7.4 lbs (3.4 kg). This makes it well suited for platforms and applications where space and payload constraints are critical.



MISSION-READY CAPABILITIES:

- Extremely small mechanical outline, fully enclosed - 8.6" x 6.8" x 2.9" (218 x 173 x 74 mm)
- Up to an Intel i7 (13th gen)
- Integrated GPU or discrete GPU (option)
- Custom mounting available
- Low weight (~7.4 lbs / 3.4 kg, depending on configuration)
- Fully customizable I/O
- Custom connector types and locations per application requirements
- Built-in real-time frame grabber to capture live video (option)
- Passive air cooling by natural convection (no fans or conduction cooling)
- ITAR free

APPLICATIONS

- Unmanned/Autonomous Vehicles
- Fixed & Rotary Wing Aircraft
- Naval & Maritime Vessels
- Military Ground Vehicles
- Transportation
- Oil & Gas

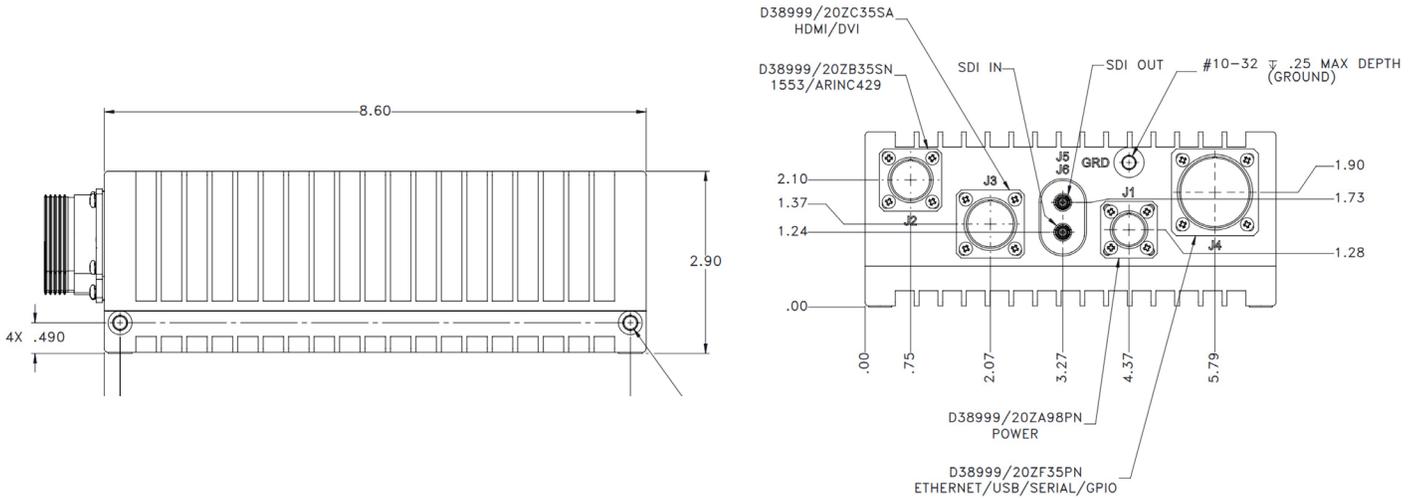


intertek™

Spectra is an
AS9100/ISO9001
certified organization.

ACB300 RUGGED MISSION COMPUTER
QUALIFICATIONS & SPECIFICATIONS

TECHNICAL DRAWING



OVERALL UNIT AND COMPUTER SPECIFICATIONS

Dimensions	8.6" x 6.8" x 2.9" (218 x 173 x 74 mm) (standard)
Weight	~7.4 lbs (3.4 kg)
Power input	10 to 36VDC (nominal 28VDC)
Power consumption	75W maximum
User controls	On/off switch or specify
Chassis	Milled aluminum, fully enclosed
Connectors	User selectable from a range of mil circular or specify
Processor	Intel Core i7-1365URE (13th gen)
RAM	64GB DDR5 4800
Storage	2TB SSD
OS	Windows 10, 11, Linux or specify
I/O	1x USB 2.0, 4x RS232/RS422/RS485 (SW selectable), 4x GigE, HDMI/DVI, 3G-SDI out
Wireless	WiFi 802.11x with flush mount antenna (option)
GPS	Commercial - specify antenna or comes with sealed SMA connector (option)
Video input	HD-SDI input (frame grabber)



ACB300 RUGGED MISSION COMPUTER

ENVIRONMENTAL (Designed to meet, but is not limited to, the following selected specifications)

Operating Temp	-4°F to 140°F (-20°C to 60°C)
Storage Temp	-40°F to 185°F (-40°C to 85°C)
Shock	40g, 11msec or test to application
Vibration	2.2grms random or test to application
EMI/EMC	Designed to MIL-STD-461E, test to application
Electrical Input	MIL-STD-704F
Altitude	40k ft Operational/Non-Operational
Rapid Decompression	45k ft
Salt Fog, Sand/Dust	Unit is 100% enclosed, resistant to salt fog, fungus
Humidity	Operating and storage – 0–90% RH, non-condensing
Waterproofness	RTCA-DO-160F Section 10 CatW

SPECTRA

Defense Technologies

Spectra Defense Technologies is a global provider of leading C5ISR solutions for aerospace and defense customers. With over 35 years of proven performance and differentiated expertise, we deliver fully integrated mission systems, data recorders, secure networking, edge computing, robust data-at-rest encryption and advanced visualization that capture, process, and display mission-critical data across air, land, sea, and space.

Backed by engineering, sales, and production teams in North America and Europe, Spectra combines global reach with agile innovation to meet evolving end-user needs with speed and precision. Guided by a culture of innovation and deep customer partnership, we build enduring trust through open-architecture designs, technical excellence, and resilient systems designed to meet today's mission needs and anticipate tomorrow's demands for the U.S. DoW, NATO, European defense organizations, and allied partners worldwide. Visit spectradefense.tech to learn more.

CONTACT

sales@spectradefense.tech

Learn more at
spectradefense.tech

ALL DATA SUBJECT TO CHANGE WITHOUT NOTICE.