

## ArgonFDS Computing Brick – ACB100

Rugged Computing Module



### ACB100 – Rugged Portable Computing Solution

**ArgonFDS** offers a rugged computing “brick” that is designed for applications where high performance, yet compact computing, is required. The ACB100 is ideal for fixed mount, wearable and unmanned vehicle use. The ACB100 provides a robust computing environment that can support a wide range of system interfaces. ArgonFDS provides a variety of Hand Held displays to complement this unit or it can be connected to any other display monitor.

The ACB100 is light and compact, weighing just 2.0 lbs, and is a versatile solution for applications where size, weight, and power are of critical importance.

The ACB100 is a fully functional computer with an Intel N6415 processor and with a wide range of customizable I/O, supporting nearly any x86 OS.

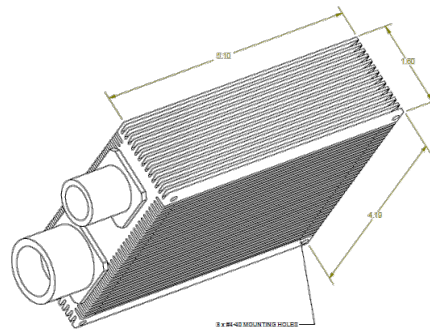
The unit is fully enclosed to prevent ingress of sand, dust, moisture and other particles, there are no fans used for cooling. The unit is convection cooled.

### Main Features:

- Intel N6415 Processor
- Extremely small mechanical outline, fully enclosed - (5.10" x 4.19" x 1.50")
- Custom Mounting
- Low weight (2.0 lbs)
- Fully customizable I/O
- Custom connector types and locations per application requirements
- Built in real time frame grabber to capture live video (Option)

ArgonFDS has over 31 years of experience designing, producing and supporting a variety of rugged computing and display solutions that serve land based, naval and airborne applications. These solutions are also suitable for adjacent applications where extreme, combat like environments are present, such as oil and gas exploration, and mining activities.

ArgonFDS has developed a standing reputation for working with customers to design custom solutions and reliable products. Add to this extensive industry knowledge and Argon is a partner you can trust.



### Technical Specifications for ACB100 (Typical)

Overall Unit	
Dimensions	5.10" x 4.19" x 1.50"
Weight	~2.0 lbs
Power Input	9 to 36VDC External Power
Power Consumption	7W to 10W Typical, Depending on Usage Profile
User Controls	On/Off Switch or Select as Needed
Chassis	Aluminum, Fully Enclosed
Connectors	User Selectable From a Range of MIL Circular (Preferred) or Other
Computer	
Processor	Intel® Pentium N6415, 4 Cores, 4 Threads, UHD Graphics
RAM	4 GB DDR3
Storage	128GB Solid State HD or Specify
OS	Windows 10 or Specify
I/O	USB, RS232, GigE, VGA Out, Specify Others
Wireless	WiFi 802.11x with Flush Mount Antenna (Option)
GPS	Commercial - Specify Antenna or Comes with Sealed SMA Connector (Option)
Other	Video Frame Grabber or Other I/O Upon Request (Option)
Environmental	
<b>Designed to Meet, but is not Limited to, the Following Selected Specifications</b>	
Operating Temp	-10°C to +55°C (-40°C Option)
Storage Temp	-40°C to +70°C
Shock	40g, 11msec
Vibration	2.2grms random
EMI/EMC	Designed to MIL-STD-461E
Altitude	40k ft Operating/Non-Operating
Salt Fog, Sand/Dust	Unit is 100% Enclosed, Resistant to Salt Fog, Fungus
Humidity	Operating & Storage – 95% @25°C, Non-condensing