Embedded Solutions
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ADLMES9200
Rugged Chassis System

DESCRIPTION

The rugged ADLMES9200 IP67 chassis is a successor to ADL's popular ADLMES8200 IP65 chassis system. Improvements include lower weight, lower cost, quick and reliable IP67 integration for rugged military and industrial applications. Design features for military/defense system include MIL-STD 810 tolerance and MIL-STD 461/704/1275 compliance capability.

The ADLMES9200 is compatible with all ADL's full-range of Intel-based PC/104 and 3.5" SBCs which range from low-power ATOM to the latest Intel Core i5/i7 processors. Power supply options include ADL's range of long-life (MTBF > 500,000 hrs) with options for MIL-STD 461/704/1275 compliant filtering.

The unibody design, with minimal, reliable EMC-compliant gasketing makes for better IP67 ingress protection as well as assembly. Full design and development services are available for chassis customization, cabling, integration and modeling support. For further information, please contact our sales engineering team: sales@adl-usa.com.

APPLICATIONS

Rugged Military/Defense:

- Ground Vehicles
- Mission/Payload Computing
- Secure Communications
- SWaP-Constrained systems for mobile, airborne, and vehicle.

Rugged Industrial:

- Oil and Gas
- Road Construction and Inspection
- Mining
- Agriculture

MES9200 CONFIGURATIONS

LPP = 3 Card Capacity; P1P = 5 Card Capacity

LPP/P1P VARIANT	PASSIVE FINNED TOP	FLANGED BASE	ACTIVE FAN
A	X	X	
B	X	X	X
C	X		
D	X		X
E		X Flat Top	

*Data subject to change without notice.

TECHNICAL SPECIFICATIONS

SPECIFICATION	DESCRIPTION
Dimensions (Conductive/Passive)	LPP = 3.3"/4.0" x 6.9" x 6.7" (3 Card Capacity) P1P = 4.6"/5.3" x 6.9" x 6.7" (5 Card Capacity)
Empty Weight (Conductive, Flanged)	LPP = 4.3 lbs P1P = 5.3 lbs
Operating Temperature	Estimated -40C to 85C with ADL Intel Core i7 SBCs with heat spreaders and flanged plate for conduction cooling.
Shock and Vibration	Designed for MIL-STD 810G shock and vibration profiles.
EMI Compliance	Supports power supply options for MIL-STD 461 Compliance.
Power	Supports power supply options for MIL-STD 704F/1275D Compliance.
Mounting	Flanged Plate - M6 Mounting Holes Additional center holes for conductive pressure

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ORDERING INFORMATION

ITEM CODE	PART NUMBER	FUNCTIONS
ADLMES9200-LPPA	9200-LPPA	ADLMES9200-LPP, Passive Finned with Flanged Base
ADLMES9200-LPPB	9200-LPPB	ADLMES9200-LPP, Passive Finned with Active Fan and Flanged Base
ADLMES9200-LPPC	9200-LPPC	ADLMES9200-LPP, Passive Finned; No Flanged Base
ADLMES9200-LPPD	9200-LPPD	ADLMES9200-LPP, Passive Finned with Active Fan; No Flanged Base
ADLMES9200-LPPE	9200-LPPE	ADLMES9200-LPP, Conduction Cooled with Flanged Base
ADLMES9200-P1PA	9200-P1PA	ADLMES9200-LPP, Passive Finned with Flanged Base
ADLMES9200-P1PB	9200-P1PB	ADLMES9200-LPP, Passive Finned with Active Fan and Flanged Base
ADLMES9200-P1PC	9200-P1PC	ADLMES9200-LPP, Passive Finned; No Flanged Base
ADLMES9200-P1PD	9200-P1PD	ADLMES9200-LPP, Passive Finned with Active Fan; No Flanged Base
ADLMES9200-P1PE	9200-P1PE	ADLMES9200-LPP, Conduction Cooled with Flanged Base
ADLMES9200-IP67-KIT	9200-IP67-KIT	EMC-compliant IP67 Gasket Kit for IP67 Option.
ADLMES9200-CUSTOM	Call	Custom sized variants available through ADL system design services. Call for details.

Exploded View - Passive, No Flange

Major Components

- TOP (Passive Finned or Flat)
- TOP Gasket
- Unibody Chassis
- Bottom Gasket
- Bottom (Flanged or No Flange)
- Front Gasket
- Front Panel

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