LGB-10/LGB-11

RUGGED MINIATURIZED COMPUTERS



The ***LGB-10*** and ***LGB-11*** are mil-rugged mini computers designed for harsh environments where optimal SWAP-C is required. Based on an Intel Atom CPU running Windows or Linux.

LGB-11 applications include Dismounted Soldier Systems, UGVs or Light Vehicle C2 Computer.

BENEFITS

- The ***LGB-10*** and ***LGB-11*** minicomputers are ultra-durable devices designed for hostile environments that require low SWAP.
- They are the perfect low SWAP solution for military modernization programs and battlefield digitalization.
- They offer custom connectivity to meet the client's specifications.
- ***LGB-11*** includes an independent video processor for streaming and video overlay. Provides powerful video processing with low power consumption.

ABOUT GMV

Our goal is to support our client's processes by dint of technologically advanced solutions, providing integrated systems, specialized products and services covering the whole life cycle.

DEVELOPING INNOVATIVE DEFENSE AND SECURITY SOLUTIONS

At GMV, we provide innovative, flexible, expandable, and easy-to-maintain solutions capable of satisfying the most demanding requirements and developed under strict quality standards.

Our developments are backed by an exceptional human team and the highest quality standards, certified under ISO 9001:2000, EN 9100, PECAL/AQAP 2110, PECAL/AQAP 2210, PECAL/AQAP 2310, and certified CMMI Level 5.

gmv®
INNOVATING SOLUTIONS

	LGB10 Specs
Manufacturer	GMV Aerospace & Defence
Processor	Intel Atom 1.1/1.6GHZ 1GB RAM
OS	Windows or Linux.
HDD	512MB to 2GB NAND flash. 8GB to 32GB Solid state SATA.16GB to 32GB Micro SD
Audio	Intel® High Definition Audio (24 bit / 96 kHz)
Graphics	Intel® (Graphics) GMA500, MPEG2 (HD) / H.264 decoder. Graphic memory up to 256Mb
I/O	1 x Ethernet 10/100/1000. 2 x RS232. 4 x USB 2.0. 1 x Audio input. 1 x Audio output (internal audio mixer). Dual VGA output. 1 x VGA input (integrated VGA switch)
Power	9,6 to 14V. 7W full performance, 4W low power mode
Size & Weight	145 x 132 x 37 mm. 850g.
Case	AL6082 aluminium
Enclosure	MIL-STD-461E, MIL-STD-810F, IP68

	LGB11 Specs
Manufacturer	GMV Aerospace & Defence
Processor	Last generation (Feb 2021) Intel Atom x6212RE RAM Memory: 4Gb (LPDDR4)
OS	Windows /Linux/VxWorks
HDD	NAND Flash: SATA Disk 64Gb (Upgradeable); Additional 16Gb NAND Flash chip (PCB integrated NAND flash disk); 16Gb MMC card (For video processor)
Audio	Intel® HD Audio chipset. Stereo Line-In/Line-Out signal available on external connectors (option)
Audio Mixer	The computer has a mixer to share the microphone and headphones with the radio.
Graphics	IIntel® HD Gfx Gen11: LVDS/eDP, 1x DP++, up to 4K
Video matrix switch	VGA out x 1 and 3 inputs: PC Windows Video; ARM Video processor; External VGA video input
Video processor	Independent video processor ARM iMX6: 2GB DDR RAM; Cod/Decod Full HD 1080; GPU with 2D/3D acceleration; Ethernet; Wifi 802.11 a/b/g/n with MIMO; Bluetooth 4.2 LE; Dual CAN, I2C, SPI, PWM, JTAG, UART, SD/MMC interfaces (Option)
External I/O	3 x Ethernet 10/100 (Internal LAN Switch) (LAN PHY GPY215); 2 x RS232/RS422 (firmware selectable); 5 x USB 2.0; 1 x Audio input; 1 x VGA 2 x SMBus (For battery management)
Internal ethernet switch	5 x 10/100 ports: PC Windows; Video processor; Vehicle LAN; External hand-held device; Radio
Power	Vehicular power input: 10V to 31V, battery inputs from 8 to 14V; Power consumption: 8W without Wifi/ Bluetooth activated. 11W Nominal; Standby: <5mA; 2 battery inputs with SMBus management.
Size & Weight	140 x 90 x 35 mm. Weight 450g
Power control & monitoring	12V and 5V outputs with current monitoring and software controlled ON/OFF switch; Total current monitoring; Intelligent Windows power ON/OFF switch using internal MCU.; Hot swap battery replacement;Automatic external power detection.
Enclosure	Aluminum AL6082 with military connectors





For more information on GMV products, visit www.gmv.com
GMV reserves the right to update the information at any time without notice