



LRT-350

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### DESCRIPTION

The Larimart LRT-350 is an high-performance computer, specifically designed for vehicle applications.

Fully ruggedized to withstand the tactical environment, the LRT-350 is the perfect candidate to support the request of computational power, essential in C2N (Command, Control and Navigation) applications. Including an XGA high-brightness colour display, the equipment is ideal for transportable applications of localization; it is able to support mobile applications, map processing, order distribution.

As a tactical PC fully conforming to MIL-SPECs, the LRT-350 is a versatile solution for many applications.

Its capacity to hold additional hardware interfaces allows system integrators to set-up the widest range of custom configurations.

LRT-350 is composed of Computer Unit (LRT-350/C) and Display Unit (LRT-350/D).

For applications where limited space is a sensitive issue, a couple of Computer Units can be operated by means of a single Display Unit; in this case dedicated buttons and lamps allow the user to switch the display / mouse / keyboard set between the two computers, always having indication about the status of each computer.

### MAIN FEATURES

- The LRT-350/C Computer Unit is powered by a Pentium Mobile (1.1 to 1.4 GHz) processor, with RAM up to 1 Gbytes.
- The shock-mount hard-disk (or flash-disk) can be removed without the need of tools; when the flash-disk is used, a dedicated (and protected) button allows to destroy all the stored data.
- The included MIL-STD-1275B Supply Unit and the internal backup battery allow the user to operate without interruption, even in presence of spikes or momentary absence of the DC supply from the vehicle.
- All I/O ports are available on military filtered connectors.
- An high degree of connectivity is available:
  - serial asynchronous, port, for standard RS-232 or RS-422/485
  - Ethernet ports
  - CAN Bus
  - CRT port for external monitor
  - LPT, for standard printer
  - Keyboard and mouse built-in PS/2 standard interface
  - 2xUSB
  - Audio: Mic, speaker, line-in, line-out
  - Video input channels
  - Digital I/O (galvanic insulated)
- PCMCIA expansion and additional cards slot (PC-104+) are available for custom configurations.
- The computer can be operated by means of its LRT-350/D Display Unit. Special consideration has been given to the ergonomic aspects of the design and the particular conditions of use:
  - a number of functions can be autonomously operated without the keyboard or mouse aid, by using the function keys alongside the display.
  - For tactical use, a singlebutton operation disables all light and sound signalling.
- An additional compact rugged keyboard (QWERTY) can be connected at any time.
- Integrated built in test equipment (BITE)

## TECHNICAL SPECIFICATIONS

Computer Unit:	Microprocessor Pentium-Mobile, 1.1 to 1.4 GHz
	RAM 512MB (optional 1GB)
	Hard Disk 20/40 GB, shock protected and removable
	Optional: Flash Disk with Secure Erase capability
	Video Controller X VGA 1280x1024, 16M colours
	2 RS-232/422/485 serial ports (expandable up to 8)
	2 USB V2.0
	I/O LAN Ethernet 10/100 Mbit/s (optional additional 10 Mbit/s LAN port)
	Up to 2 Can Bus ports (optional: optoisolated)
	1 parallel EPP/ECP
	4 video input channels, NTSC/PAL
	up to 16 digital I/Os (galvanic insulated)
	Audio PC embedded (line in, line out, mic in)
Expansion capability:	2 x PCMCIA type II / III (card Bus)
	2 x PC-104+ boards
Power supply:	18-32 VDC, MIL-STD-1275B
	integrated backup battery
Dimensions:	326 x 224 x 90 mm
Weight:	6 kg including battery
Display Unit:	Display TFT 10.4", 1024x768
	Brightness: 300 cd/m <sup>2</sup>
	Contrast ratio: 300:1
	Response time: 15 msec.
Inputs:	XGA from computer
	NTSC/PAL
Functional keys	
on front panel (backlit):	12 configurable software keys
	8 custom function keys (on/off, video config., computer select, input select)
	backlit
Power supply:	18-32 VDC, MIL-STD-1275B
Dimensions:	290 x 220 x 50 mm
Weight:	4 Kg
Environmental:	Operating temperature -20 to +55°C (optional -32 to +55°C)
	Non operating temperature -40 to +70°C (optional -46 to +71°C)
	Vibration/shock/humidity/rain/salt/altitude/fog: according to MIL-STD-810F
	EMC according to MIL-STD-461E