

MACFARLANE GENERATORS

New Product Information

LC60 – Rugged Loadbank Controller



The *Crestchic* LC60 is a robust tablet computer designed for indoor or outdoor use in harsh industrial environments.

It combines a large, daylight-readable touchscreen display with the customary storage capabilities found on a conventional PC, all housed within a resilient sealed casing to produce the ideal hand-portable device for loadbank control.

When operating in the adverse conditions often encountered on-site the durable LC60 is at home, reliably controlling the connected *Crestchic* equipment in even the most unforgiving of situations.

The LC60 runs a variant of the user-friendly *Microsoft Windows*® 10 operating system, which is enhanced to support the touchscreen capabilities of this device. Utilising this industry-standard environment makes the LC60 immediately accessible to operators familiar with using standard desktop PCs or other Windows tablet computers.

Supplied pre-loaded with the latest CrestCom 3 software, the LC60 fully replicates the functionality of the HHT100, *Crestchic's* previous handheld controller. This provides a path of backward-compatibility for existing customers, in keeping with *Crestchic's* ethos of extended service and support for its world-wide installed product-base.

Whilst reproducing the physical look-and-feel of the HHT100 on-screen, the LC60/CrestCom 3 combination offers superior performance, with a host of additional benefits over its predecessor such as an easily-readable large screen area, colour display with touchscreen operation, and improved IP ratings.

Whether supplied as the basic controller with a new loadbank, or as an upgrade or replacement for the last-generation of control terminal, the LC60 marries state-of-the-art technology with robust physical construction to produce a loadbank controller that is designed-for-purpose, and delivers an outstanding user experience.

Functional Specification

- Processor: Intel Atom Industrial Quad Core 1.04Ghz Processor
- Memory: 2GB of DDR3L RAM
- Storage: 32GB Industrial Solid-State Flash Drive
- OS: Windows® 10 IoT Enterprise LTSC
- Display: 10.1 inch Colour TFT Capacitive Touchscreen
High-Brightness LED Backlighting
1280 x 800 pixel resolution
Indoor/Outdoor readable with Luminance of 640 cd/m²
- I/O Ports: 1 x RS232 for Loadbank Communications
2 x USB 3.0 for transfer of data to/from a Memory Stick
1 x Ethernet 10/100 Mbps
- Power: 25W at 48V DC from connection with loadbank, or via a dedicated DC power input
- Range: TBC
- Battery: Internal battery with charge-management circuit to provide 15 mins of operation through power outages
- Indicators: Power Detect LED
Battery Status LED

Physical Specification

- Chassis: Case manufactured from Impact-resistant UL94 V0 listed ABS
Aluminium backplate
Gasket seals applied to screen and backplate
Sealed to IP65 rating for dust/water protection
Dust – No ingress
Water – Protected against jets of water
Heavy-duty rubber mouldings to protect all 8 corners
Screw mountings for stands and carry straps
- Rear Panel: All switches IP67 rated
All ports IP67 rated when sealed with locking connectors or protective covers
- Temperature: Operating range -20°C to 55°C (-4°F to +131°F)
Battery charging -20°C to 40°C (-4°F to +104°F)
Storage range -20°C to 65°C (-4°F to +149°F)
- Dimensions: 290 x 210 x 70mm (W x H x D)
11.4 x 8.3 x 2.8 inches (W x H x D)
- Weight: 1.4kg (3.1lb)

Other Details

The LC60 is supplied ready-for-use in a protective transport case which contains both the LC60 itself and a 5-metre cable that connects with the loadbank using the standard military-type connector. This cable provides the communications interface between the loadbank and controller, and is also used to provide power to the LC60.

It is intended that in normal operation the LC60 will always be powered from the loadbank it is being used to control. However, it does contain a small internal battery which will be charged from the loadbank and can power the device for a short period of time, should loadbank power become unavailable. This may be useful for transferring data from the LC60 to a Flash Memory stick after the loadbank has been shut down at the end of a day's testing.

For extended operation, away from the loadbank, an optional AC power adaptor is available. This can be used to power and charge the LC60 from the mains supply, for example, in an office environment. This adaptor is suitable for indoor use **only**.

Finally, there are a range of stands, carry straps, and other options available for use with the LC60. These include an upgrade kit to enable existing loadbanks to be retro-fitted to supply the LC60's power requirements.

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