



INTEGRAL
CONTROL SYSTEMS LTD.

INTEGRAL 12.1" LOCOMOTIVE DISPLAY UNIT [ILDU]

System Datasheet

ICS Model Number LDU-0001

Document LDU-0001-P-V0-R1
05.2024

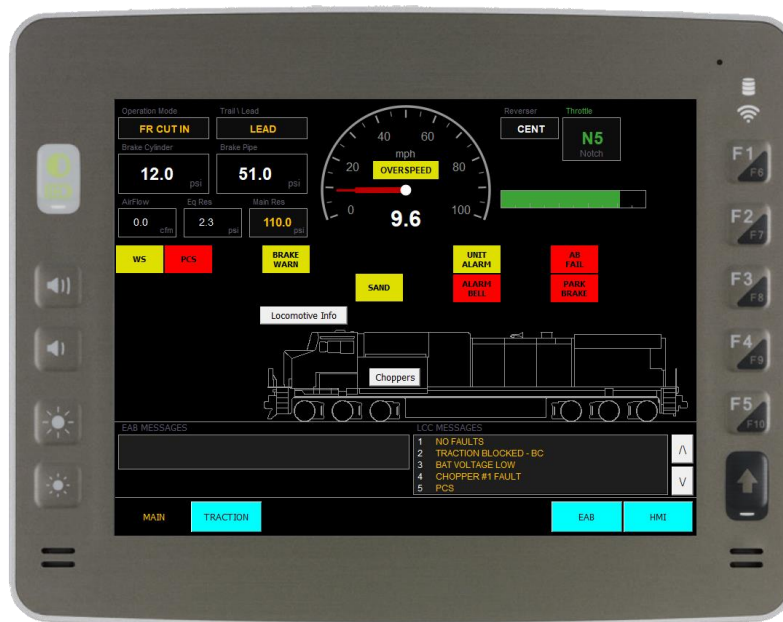
www.integralcontrols.ca
info@integralcontrols.ca

Integral Locomotive Display Unit 12.1" – ILDU

The 12.1" ILDU is a rugged vehicle mount integrated touch screen display designed for demanding mobile applications. The ILDU can be mounted in the driver's desk as the primary operating display or remotely located for use as a maintenance display:

Key Benefits

- Resistive Touch with function buttons for flexible UI/UX
- AAR LSI, UIC612 and custom layouts available
- Fully integrated visualization of EAB, DP, HOTD/EOTD, ECP and LCC systems
- Sunlight viewable at 1200 nits
- MIL 810-STD-G shock and vibration rated



Integral Locomotive Display Unit 12.1" – ILDU

Specifications

LCD Panel

- Size: 12.1-inch TFT LCD panel with LED backlight
- Resolution: 1024x768 pixels (XGA)
- Brightness: 1200 cd/m2
- Viewing angle: 170°

Touch Screen

- Projected capacitive
- Anti-glare coated surface
- Transmission rate 80 +/- 3%

Power Management

- Standard internal 24Vdc nominal supply with operating range 9Vdc – 60Vdc
- Optional nominal supply input 72Vdc with ultra-wide transient range 16.8Vdc-160Vdc via external converter

I/O

- 2x Full RS232/RS422/RS485, DB9M standard port
- 1x 10/100/1000 MBPS LAN, M12 A-coded
- 2x USB 2.0, M12 A-coded
- 2x CAN 2.0B
- 1x Bluetooth, SMA

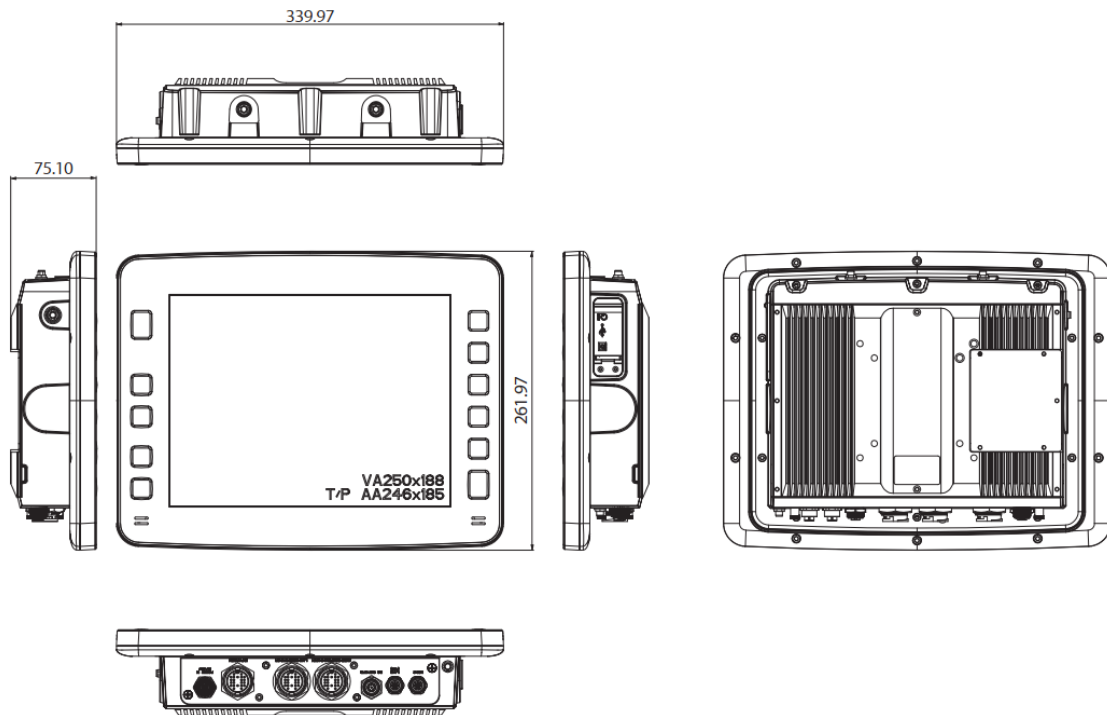
Environmental

- Operating ambient temperature: -40°C to 50°C
- Shock and vibration: MIL-STD-810G

Integral Locomotive Display Unit 12.1" – ILDU

Mechanical

- Dimensions: 9.84" (W) x 7.05" (H) x 2.66" (D)
- Weight: 5.7lbs (2.6 kg)
- Mounting: VESA 75



Integral Locomotive Display Unit 12.1" – ILDU

Why work with Integral Control Systems?

- We are customer driven; your success is our primary mission.
- Decades of locomotive control experience; we're ready to solve your toughest project challenges.
- We are experts in locomotive propulsion and traction control; from conventional EMD and GE alternator fed units to DC link AC and DC traction solutions.
- We are innovative and experienced in empowering disruptive, industry leading railway technology development; from multiengine gensets to battery and battery-hydrogen hybrid locomotives.



Your Partner in Complete Locomotive Control Solutions!

