

EMBEDDED DEVICES

PHYSICS
MECHANICS

SPECIALIZED MEASUREMENT DEVICES

FIRMWARE DEVELOPMENT
ELECTRONICS

SOFTWARE DEVELOPMENT

Linux software
and drivers.
ARM, PIC, AVR

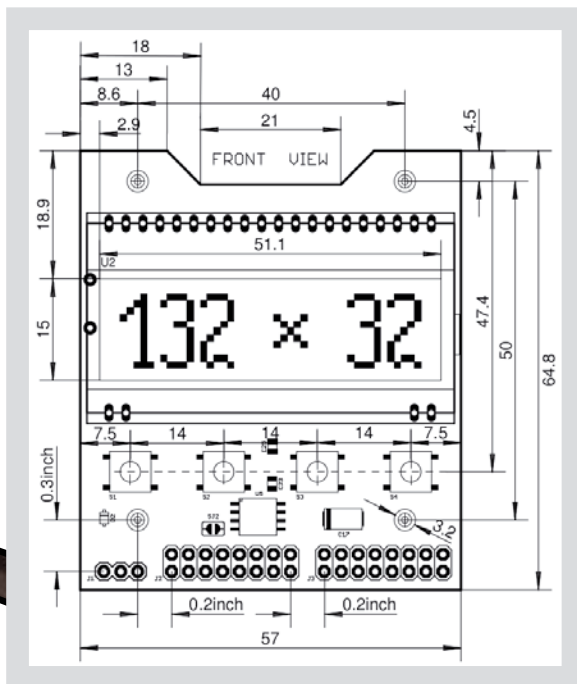


www.tauria.ee



GraDis

Miniature Control Unit



Features:

- => Battery powered with power optimisation
 - +> Min 2V with back-light
 - +> 2xAAA battery lifetime in years
- => 4 push-buttons for user interaction
- => Up to 74MHz 32bit ARM-Cortex M3 MCU
- => 16 MBytes flash data storage
- => Programmable logic and analogue schematics
- => 1x 20-bit delta-sigma ADC @ 187 SPS
- => 2x 12-bit SAR ADCs @ 1 MSPS
- => 4x 8-bit DACs @ 8 MSPS
- => 4x comparators
- => 4x opamps
- => 4x programmable analog blocks, to create:
 - +> Programmable gain amplifier (PGA)
 - +> Transimpedance amplifier (TIA)
 - +> Mixer
 - +> Sample and hold circuit
- => CapSense® support, up to 62 sensors
- => On-board USB 2.0 interface with µUSB socket
 - +> Other communication options as an extension
- => Cost optimisation possibilities depending on application requirements

Useful for:

- => Hand-held instruments
- => Home appliances
- => Manufacturing devices
- => Measurement devices
- => Laboratory devices
- => Medical devices
- => Door controllers
- => et cetera

It is good starting point for prototyping an application where simple user interaction is required.

