

Wearable Display

Product brief

The Idea:

Wearable Display - a flexible display plug-n-play platform for next generation connected products. Tiny-sized, extremely low power and wirelessly connected smart label solution enables product development with expressive visual performance. Simple and smart introduction of displays to areas where it was uncommon before:



- Fashion clothes and footwear
- Industrial and sport clothes and footwear
- Wearable gadgets and new age accessories
- Interiors
- Everyday commodities and auxiliaries

Design Overview:

Wearable Display is targeted for designers and engineers evaluating the introduction of seamless visual and network interface to everyday things, making them “connected” and responsive. The platform itself includes all inventory necessary to prototype and perform the final product within several days:

- 4” / 4,7” / 4,9” - plastic flexible e-paper display
- Powerful microcontroller
- Wireless connectivity
- USB storage and connectivity
- Long lasting Li-Po battery
- Push-buttons
- Accelerometer
- Optimized UI-framework with WYSIWYG design capability
- Cloud-platform with API for fast deployment of mobile and web applications
- Customize-friendly
- Suitable for prototyping as well as using in pilot series and mass production

Display variations:

4,0” size



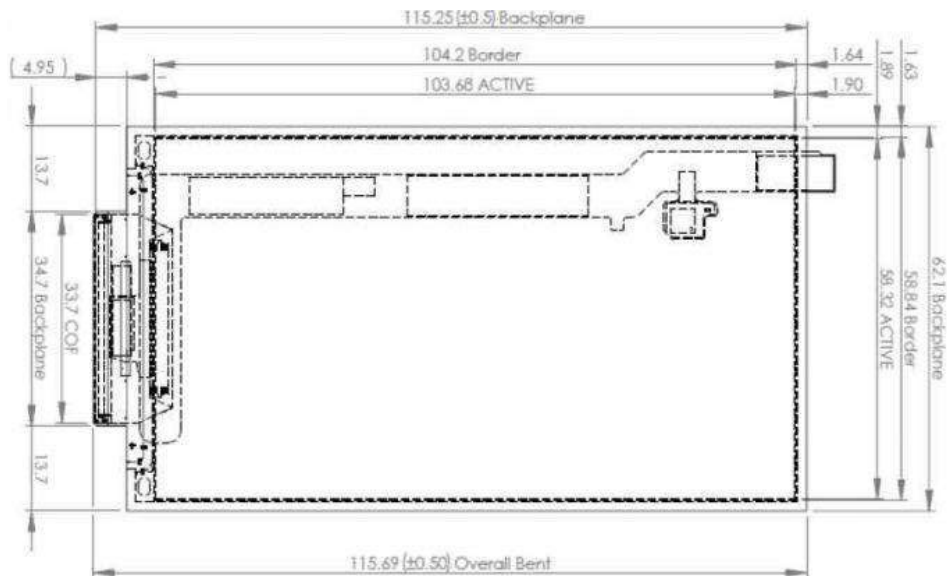
WEARABLE DISPLAY

PLATFORM

4,9" wristband format



4,7" hi-res format



WEARABLE DISPLAY PLATFORM

Specifications for 4" Wearable display:

Dimensions: 121x60x2 mm

Weight: 50 g with battery

Display

Type: E-paper

Resolution: 400 x 200 pixels

Active area: 88.0 x 52.8 mm (4.0" diagonal)

Pixel density: 115 ppi

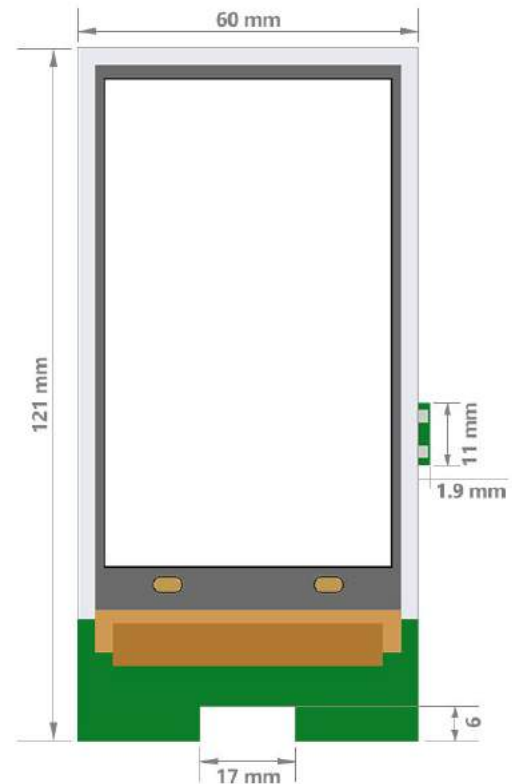
Bendability: typical 50 mm radius (except chip area)

Gray levels: up to 16

Surface: anti-glare / UV protection / hard-coat 2H

Thickness: 650 μ m

Touch screen: available as option



Battery

Port for connecting LiPo battery

Run mode peripherals enabled: 147 mW

Run mode peripherals disabled: 63 mW

Sleep mode peripherals enabled: 135 mW

Sleep mode peripherals disabled: 24 mW

Stop mode: 1.5 mW

Standby mode: 0.012 mW

WEARABLE DISPLAY PLATFORM

Case studies with our partners:

SmartLabel

A digitally labeled uniform for last-mile delivery, displaying appropriate logo on driver arrival



MAREA jacket

A fashiontech project devoted to digitally enabled clothes

WEARABLE DISPLAY PLATFORM

FlexiBadge

A digitally enabled event badge with developed internal mobile application



Woodash

An old school style smart accessory for gentle notifications synced with popular mobile services