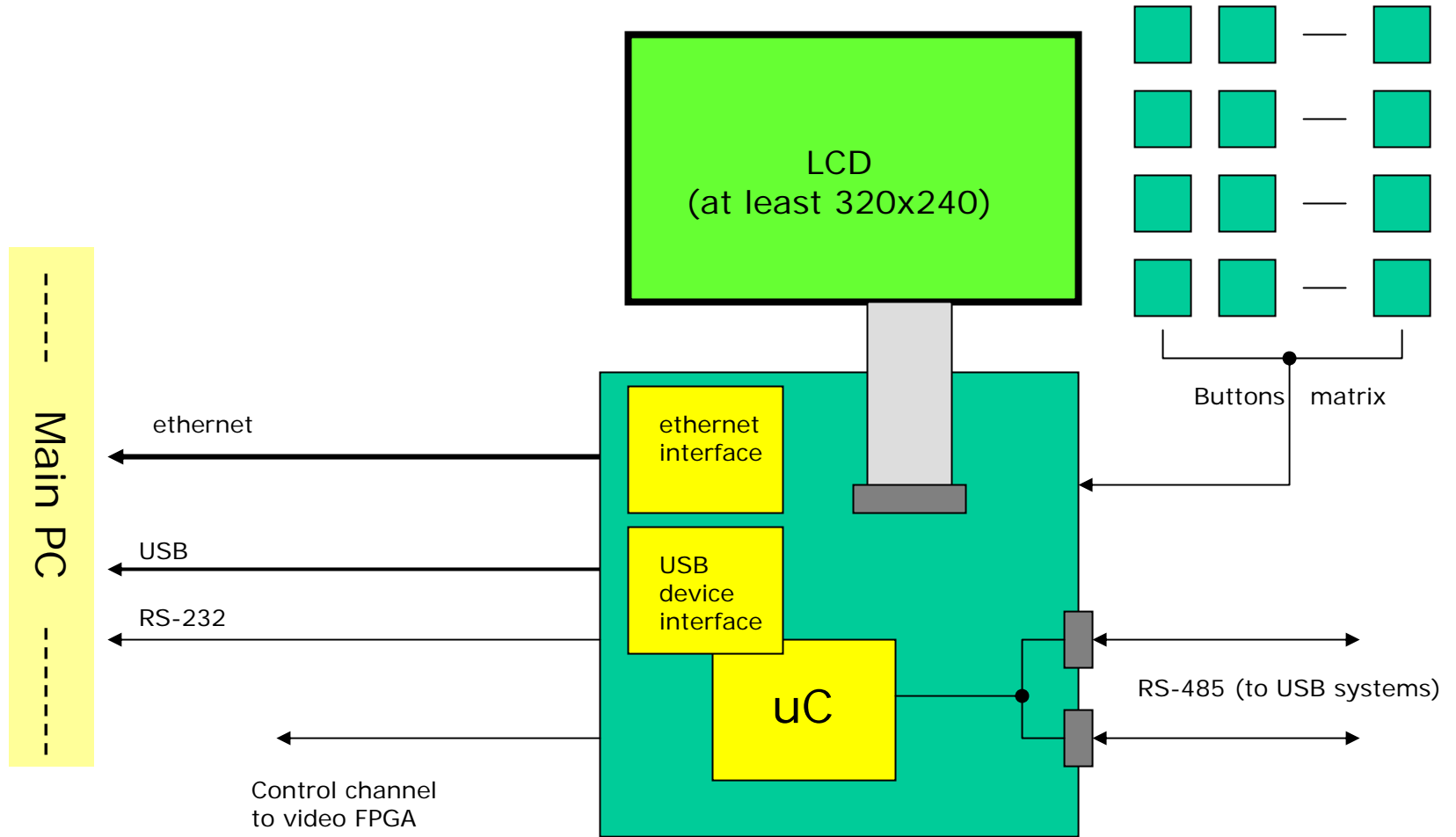




# SCREENS

WP4 – User Interface design

# Architecture



## Hw issues

- Buttons via kbd interface?
- colour LCD with touch screen, even 320x240?
- Ethernet OR USB ? Ethernet AND USB?
- MAC or Windows or Linux?

## SW

- Reconfigurable interface on LCD panel
- Description of graphic objects is made with a text file using a scripting language
- Configuration is dynamic (i.e., the same technique can be used for every new screen layout, including submenus)
- Default configuration (the one that appears even if no host is connected) is saved locally into non volatile memory; all the others are loaded from .....?.....
- The User Interface acts as a pure control surface, that sends all interaction commands via the host interface....?.....

OR

- The User Interface is a close unit PC – Independent ..?..



## Tentative Selection of parts

- ARM9 processor with Embedded Linux
- Accepts USB key with customized layouts and scripts
- Direct support for many flat panels
- Custom USB device interface with drivers available for Windows, Linux and Mac OS X
- Socket-based communication

## Display STN Mono

- cost +++ (low cost)
  - Easy to find +++ (small quantities)
  - Life-time +++ (not consumer)
  - Look – (old fashioned aspect)
- 
- Ex: OPTREX F-51477GNB-FW-AD 4.7 Inches Neutral/blue
  - Cost: 500/1000 -> 45/41 Euro (USD/Euro =1.2)
  - Dimensions: 129,4 x 94 x 10
- 
- Ex: OPTREX DMF-50840NB-FW-AKE-AS 5.7 Inches BI/Wh
  - Cost: 500/1000 -> 52,5/45 Euro (USD/Euro =1.2)
  - Dimensions: 167,1 x 109 x 11 (mm)

## Display TFT Color

- cost - - - (medium to High)
  - Easy to find - (small quantities)
  - Look + + + (new fashioned aspect)
  - Life time -- ?
- 
- Ex: Sharp LQ030B7DD01 3 Inches color QVGA
  - Cost: 500/1000 -> 110/100 Euro (USD/Euro =1.2)
  - Dimensions: 80 x 60 x 4
- 
- Ex: Sharp 5.7 Inches color QVGA
  - Cost: 500/1000 -> 258/250 Euro (USD/Euro =1.2)
  - Dimensions: 167,1 x 109 x 11 (mm)

## Display TFT Color

- Ex: Sharp 5.7 Inches color QVGA
- Cost: 500/1000 -> 258/250 Euro (USD/Euro = 1.2)
- Dimensions: 167,1 x 109 x 11 (mm)

