



R100TFT

technical brochure



ITALIAN DESIGN
SOFTWARE CUSTOMIZATION
SAFETY CARE
OPERATOR ORIENTED

General Description

R100TFT is a new concept of diameter 100mm instrument series. With a consolidated shape but new concept of visualization with an high visible TFT color display , equipped with **1 CANBUS line and several I/O lines** with R100TFT and **12 LED** indicators is possible to control all the machinery functions.



TECHNICAL FEATURES

Operating voltage: 8 – 32 Vdc, protected against reverse polarity

Operating temperature: -30°C +80°C

Material: PC- ABS + GLASS

Sealing: IP65

MCU: - 32 bit STM32H750

Memory:

- Internal FLASH: 128KB (dedicated for bootloader)
- External FLASH: 4MB (for FW application)
- Internal RAM: 1MB
- External RAM: 4MB

Display/front cover:

- TFT IPS
- Format: 2,4inch
- Resolution: 240x320 dots
- Orientation: Landscape or portrait
- Backlight: LED 700cd/m²
- Contrast ratio: 800
- Optical bonded with anti UV treatment

2 Pushbutton

15 Digital INPUT (active high or low settable by SW)

2 Analog INPUT (resistive type)

2 Frequency INPUT

2 protected HIGH SIDE OUTPUT 5A

1 CANBUS 2.0 part A and B up to 1Mbps (ISO 11898 standard)

1 RTC

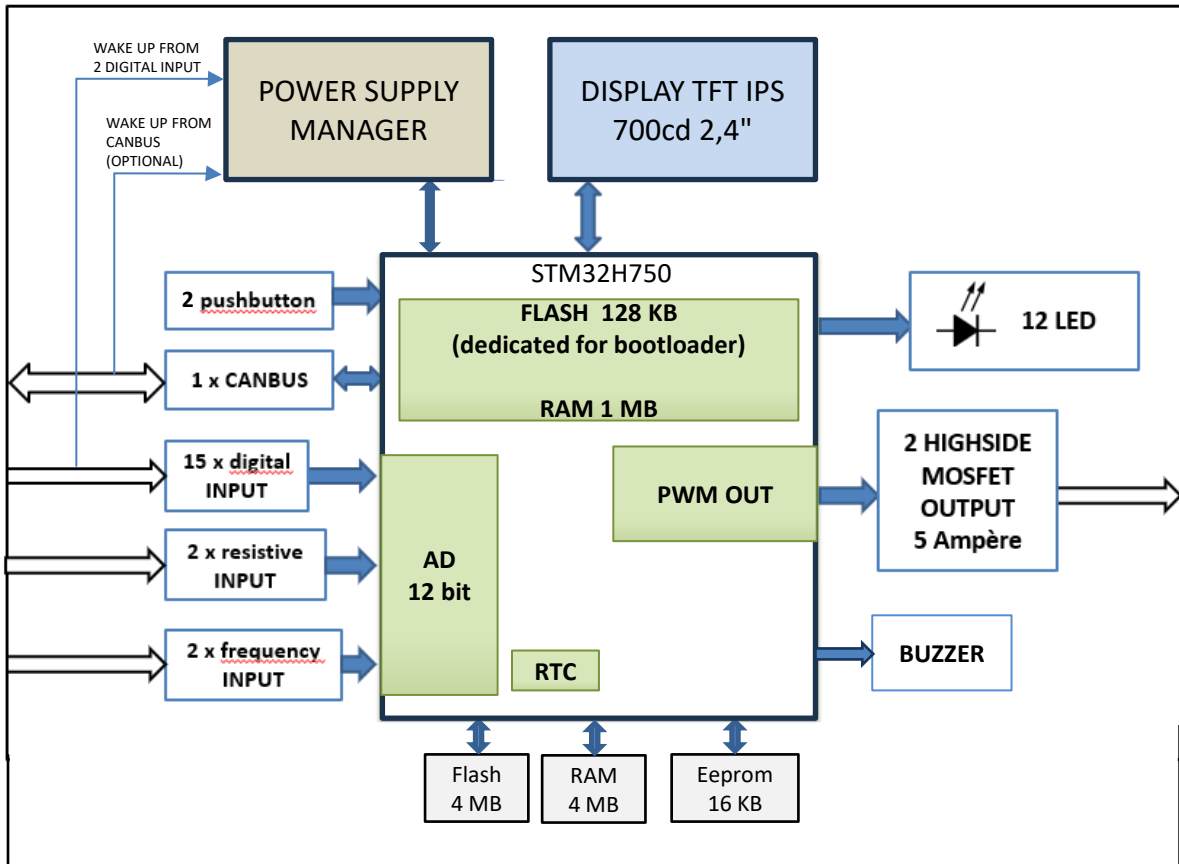
1 buzzer 100dB @ 10cm

1 Connector Tyco Superseal 26 poles

Programmable in C language with TouchGFX from STmicrocontroller

CAN bootloader for FW upgrade

Block diagram



PINOUT CONNECTION

PIN	Function
1	OUT (HSD 5A)
2	Resistive INPUT
3	Resistive INPUT
4	Digital INPUT (*)
5	Digital INPUT (*)
6	Digital INPUT
7	Digital INPUT
8	Digital INPUT
9	Digital INPUT
10	Digital INPUT
11	Digital INPUT
12	Digital INPUT
13	Digital INPUT
14	Digital INPUT
15	Frequency INPUT
16	Digital INPUT
17	Digital INPUT
18	Digital INPUT
19	Digital INPUT(OUT (DEDICATED FOR D+))
20	Frequency INPUT
21	CAN L
22	CAN H
23	GND
24	OUT (HSD 5A)
25	VCC (+30)
26	IGNITION KEY (+15)

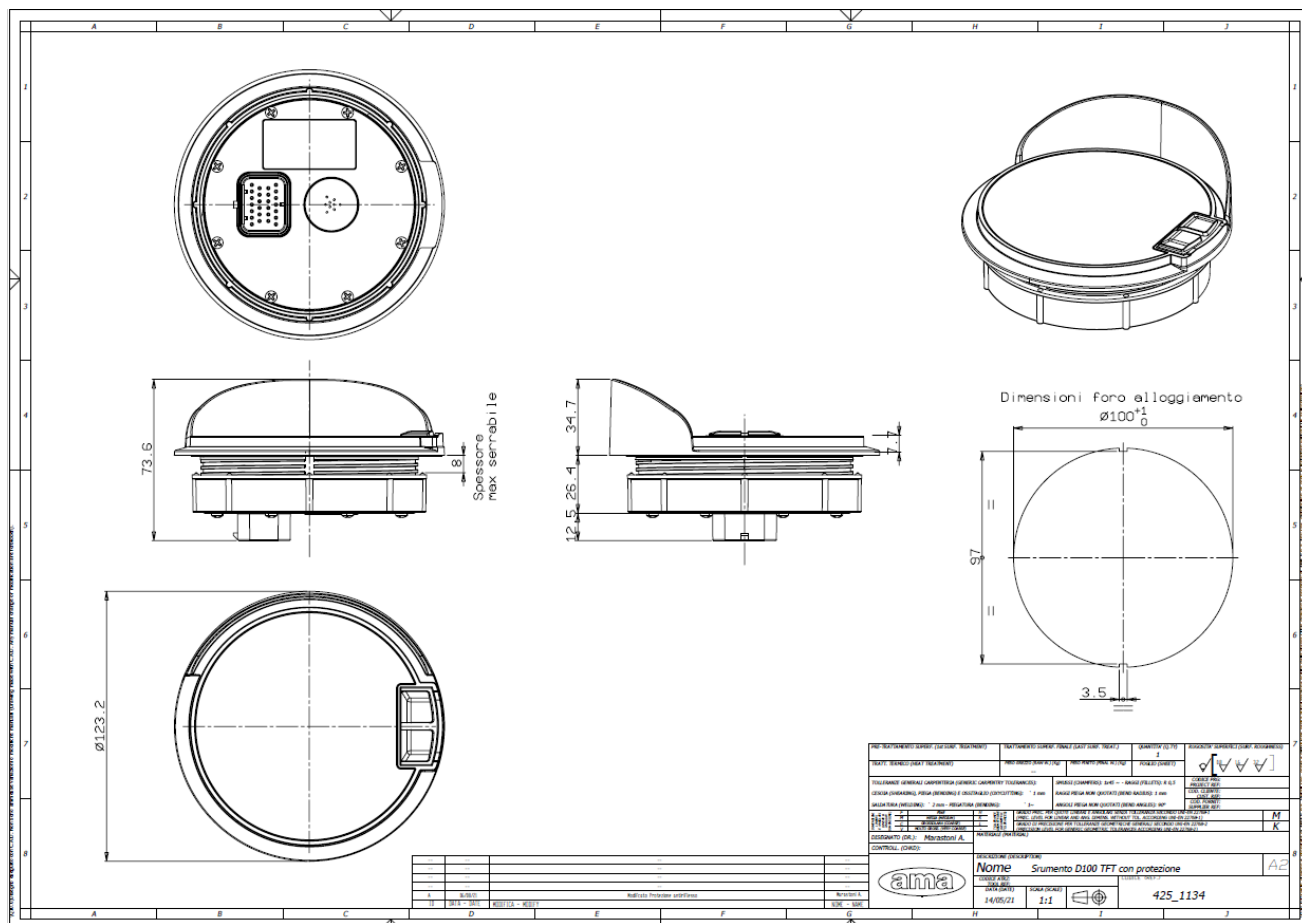
(*) Digital input that can be enable the internal power supply to manage the wake up mode.

WITHOUT SUN PROTECTION

[illegible]

OVERALL DIMENSION

WITH SUN PROTECTION





Strumentazione analogica-digitale,
centraline elettroniche e spie

Analog-Digital instruments,
Electronic Control Board & Indicators

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PER LA QUALITÀ CERTIFICATO DA DNV
= UNI EN ISO 9001:2008 =