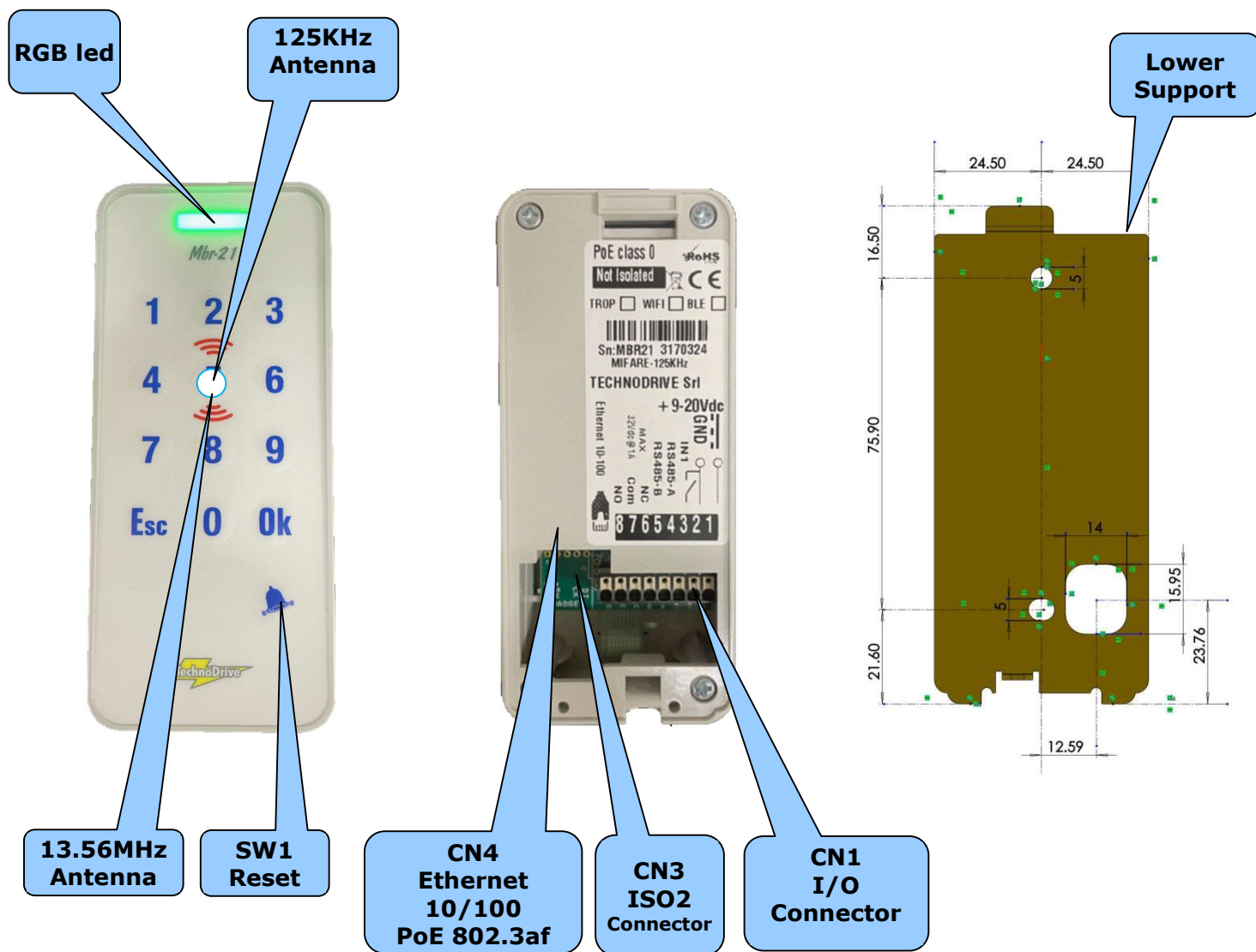


MBR-21

Technical Manual

rel 1.1_2



CN4:

Ethernet 10/100 connector, Auto-MDIX, **NOT ISOLATED** PoE IEEE 802.3af

RED led Power supply ON

GREEN led Link



Progettazione e Realizzazione Apparecchiature Elettroniche

CN1:

pin-1	+Supply (9..20Vdc) without PoE
pin-2	GND
pin-3	INPUT_1 (close to GND to activate)
pin-4	RS-485_ "A" (COM4 RS-485)
pin-5	RS-485_ "B" (COM4 RS-485)
pin-6	RELAY_1 NC (MAX 1A@32Vdc)
pin-7	RELAY_1 C (MAX 1A@32Vdc)
pin-8	RELAY_1 NO (MAX 1A@32Vdc)

CN3: optional ISO2

pin-1	GND
pin-2	+5Vcc@40mA MAX
pin-3	nc
pin-4	ISO2 clock
pin-5	ISO2 data

RGB Led:

Power on:

1. Power ON "WHITE"
2. u-boot start "RED" > "GREEN" > "BLUE"
3. kernel start "YELLOW"
4. program start "WHITE"
5. ethernet cable **connected** = "BLUE FLASH", cable **disconnected** = "WHITE FLASH"

SW1:

RESET mode:

1. Power ON MBR-21
2. 1Press ~30 sec., when the LED becomes OFF, release switch
3. 3MBR-21 restart

RECOVERY mode:

1. Power ON MBR-21
2. Connect ethernet cable
3. Press ~40 sec., when the LED becomes RED, release switch
4. Wait ~30 sec. and wait 5 sec. BEEP, recovery mode active
5. Wait for the RED led to flash quickly
6. ***ip=192.168.0.1 TCPport=4660 WEBport=80 ID=01***

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Progettazione e Realizzazione Apparecchiature Elettroniche

Technical characteristics:

- *CPU* Microprocessor Cortex-A7 800MHz
- *RAM* 512Mbyte DDR3 533MHz
- *FLASH* 256Mbyte SLC FLASH
- *RTC* High precision
- *SERIAL PORTS* 1xRS-485
- *USB* 2xUSB 2.0 HOST (Internal)
- *ETHERNET* 1xETHERNET 10/100 with **NOT ISOLATED** PoE IEEE 802.3af
- *OUTPUTS* 1xRELAY 1A@32Vdc MAX (NO, C NC)
- *INPUTS* 1xINPUT NPN
- *RF-READER* 1x125KHz , 1x13.56MHz
- *ISO2-READER* 1xISO2 **OPTIONAL**
- *LED* RGB led
- *SOUND* Monotone Buzzer
- *KEYBOARD* 13 key keyboard
- *SUPPLY* 9..20Vdc max
- *POWER* 10W max
- *DIMENSIONS* (W x H x D) mm 54 x 120 x 37
- *WEIGHT* 140g

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