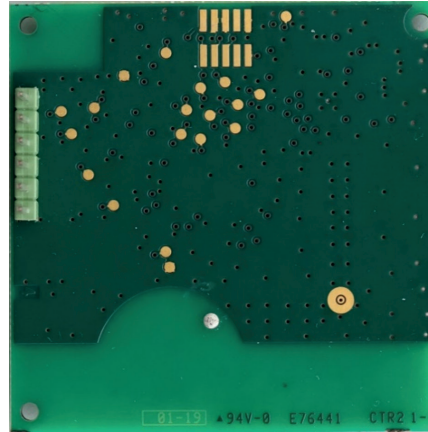
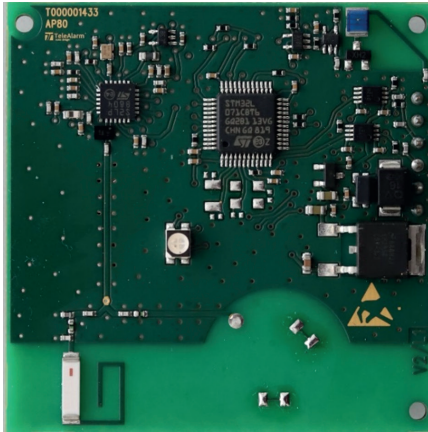


AP80 Access Point



Tri-colors LED indications

Red LED:

- ON when power supply is connected.
- **Blinks ON/OFF 0.5 s** during a transmission problem, until the transmission returns to normal.

Turning to Green LED:

- **Flashes approx. 0.1 s**, when sending a "Live message" every 10 s to the serial interface.
- **Switches ON for 1 s**, when sending the radio transmitter information to the serial interface.

The LED is adjustable between 0 (off) and 8 (max intensity)

TX Serial output

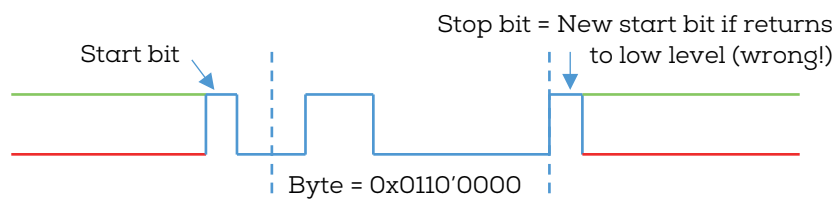
- Output low voltage: maximum 0.55V
- Output high voltage: minimum 3.8 V
- Absolute maximum output current: +/- 32 mA

RX Serial input

- Input low voltage: 0 - 1.5 V
- Input high voltage: 3.5 - 5 V
- Input leakage current: +/- 1 μ A max
- Absolute maximum input voltage on "RX": 10 V

Idle state of the RX/TX signals

The signal must be "High" to avoid a "ghost" byte interpretation. Example: Receiving an "ACK" (0x06):
→ The byte is read from the right (MSB) to the left (LSB)



Connection Pins

- 6 : ---
- 5 : ---
- 4 : TTL 5V - Rx
- 3 : TTL 5V - Tx
- 2 : GND
- 1 : 8 - 30 VDC

Power Supply

- 8 to 30 VDC
- Typical current < 30 mA
- Peak current: < 50 mA

WARNING!

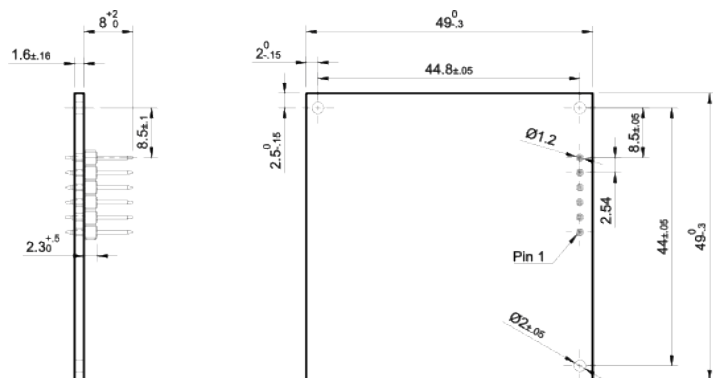
The unit's sensitivity must not be exposed to affected by external influences from such as shielding or external RF radiation from the customer's application: the board must not be in the proximity of free of any surrounding close metallic parts or have cable close to the antenna area, or any extra RF application on the same channel.

Working Mode: Open Receiver

No wireless transmitter needs to be programmed. Any NurseCall 868.8MHz transmitter within the reception range of the AP80 will activate the device and will send the radio-data via TTL interface. The TTL interface protocol is described in the document 'AP80 - Protocol description'.

Dimensions of the AP80 and fixing holes

Notice: plastic standoffs must be used when installing the PCBA by its mount holes.



B81 technical specifications

Dimensions (H × W × D)	49 × 49 × 22mm
Weight	16g
Frequency	868.8MHz bidirectional
Indication	1 tricolour LED RGB
Adjustable LED brightness	'0' is LED off, '7' is max. brightness
Operating temperature	0°C to 45°C
Storage temperature	-20°C to 70°C
Maximum connection length between AP80 and customer subsystem	100mm

Disposing of the device

Electrical or electronic devices that are no longer serviceable must be collected separately and sent for environmentally appropriate recycling (in accordance with the European Directive on Waste Electrical and Electronic Equipment).

