

Iiwari Master Base Station

Main Features

- UWB radio, Decawave (DW1000)
- Cortex-M7 family MCU (Atmel SAM E70)
- LED indicators
- DC Power connector 12 - 48V input, socket diameters 5,5x2,1 mm
- RJ45 connector for 10/100 Mbps Ethernet with PoE+ (802.3at class 1) input



Product Overview

The Iiwari Master Base Stations are at fixed positions in the site (typically in the ceilings) and exchange UWB radio signals with the Master Base Stations and the tags. The site is divided into logical cells for positioning which allows unlimited expansion of the positioning network. Depending on the facility, one cell can cover an area between 225 to 2500m². Tags can freely move between cells.

Each cell has one Master Base Station (MBS) and optionally up to 8 Base Stations (BS) which can also be part of other adjacent cells. The MBS acts as the center of the cell and is connected to a gateway unit with an Ethernet cable (PoE+). BSs themselves require only power connection (or battery power) and all communication happens with UWB radio between MBS, BS and tags.

Specifications

Dimensions

- 142.0 mm x 142.0 mm x 53.0 mm

Power consumption

- 2 watts (max)

Weight

- 210.0 grams

Environment

- Temperature
 - Operating temp. Range: -30°C ... +70°C
 - Storage temp. Range: -40°C ... +80°C
- Ingress Protection Rating: IP30, Indoor Use
IP64 possible for outdoor use
- Humidity (non-condensing): 0%~90% typical