

# Ultra Wide Band mobile Field Anchor FA02



## Key benefits for next generation smart building











- Fast installation time.
- Person and asset tracking using long range radar
- RGB LED Panel
- Infinite wireless scalable for large deployment.
- Operates outside congested wifi bands
- Qorvo UWB Radio, 4-9GHz, IEEE 802.15.4a
- Firmware upgrade over the air (AES security, unique ID)

Indoor and outdoor localisation < 10cm accuracy<sup>1</sup>. Typical outdoor range for UWB system up to 300m at 6.8Mbps by using special electronics to increase sensitivity and selectivity of the radio transceiver. The ultrawideband radio guarantees a reliable connection as a data backhaul for bi-directional. UWB operates outside the WiFi bands using worldwide allowed 'unoccupied' frequencies.

## FA02 anchor provides true smart sport tracking.

Providing data integration between heart rate sensors, performance and tracking.

- A) Tracking of sportsball at 175 positions/second in 3D
- B) Measuring performance like sprint, shooting consistency
- C) Realtime Motion analysis for injury prevention (200Hz IMU)
- D) Long battery life, automatic on/off switching

-  Automatic deployment
-  Indoor and outdoor tracking
-  3D tracking
-  Energy efficient: 0.4 Watt
-  3.6 Wh, NiMh or LiPo, 9 hours
-  -10 to +70 °C
-  RGB LED, realtime performance feedback
-  Upright detection to switch on/off (sleep)
-  Nanosecond synchronous timing
-  Infiniscale<sup>®</sup>, wireless auto scaleable

Connector 1 : USB-C 12Mbps

## Optional features

- GPS
- 8GHz UWB DW3220 (Japan, China)
- NiMh (3xAAA) instead of LiPo battery

Dimensions	74 x 36 x 140 mm
Weight	200g
UWB Network Sync	< 100 nano seconds
RGB LED Panel	12 Watt
Radio	UWB 4-9GHz 6.8Mbps Bluetooth 5.3 2.4GHz 2Mbps GPS, GLONASS, Galileo, BeiDou



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<sup>1</sup>: Accuracy range from sub cm accurate in line of sight condition. Range up to 300 meter

# MOBILE 3D realtime TRACKING SYSTEM



**Pulse ball, FiFa Pro**  
3D UWB tracking, <5cm accuracy  
BLE 5.3, mocap 200Hz, pressure sensor  
500mAh capacity  
9 hrs continuous operation/charge  
36 hrs operation (normal training session)  
175 positions/sec in 3D, 1ms impact resolution

Stable  
60 cm legs  
flat on the ground

Max height 3.05m  
Range up to 300m

Height 2.25m

**MOBILE SYSTEM**  
6 anchors + tripods  
2 balls, 2 trackers  
Total weight <9kg

Folded-in length 60cm  
Weight 1.2kg  
Aluminium, stainless steel



**12 Watt LED RGB**  
Realtime optical feedback  
- goal line detection  
- offside  
- player performance

Player to tag pairing  
using QR code

ANDY '2

Base diameter  
28mm

Quick connect

Twist lock

