

EBS-50

Base Station



Highlights

- Integrated Linux computer (no separate PC or server required)
- Web based ESL server application (works on any device with a browser)
- Easy installation, configuration and software updates
- Perfect for small retail and multi-store installations
- Upload to the cloud for remote multi-store monitoring
- Customizable dashboard (based on roles and user privileges)
- 2-port Ethernet switch (daisy chain EBS-40s for more radio coverage)
- Power-over-Ethernet (PoE) support
- Basic and advanced network settings (including VPN support)
- Dual band Wi-Fi support (by USB- dongle; configurable as Wi-Fi access point and client)
- Integration with 3rd party software possible using a secured REST-API
- Supports almost all major database formats (CSV, MySQL, MS-SQL, Oracle, ODBC, etc.)
- Support of secure (external) database connections
- Secure communication (SSL, HTTPs, VPN, AES)
- Bi-directional 802.15.4 based radio communication

EBS-50

Product Specifications

OPERATION

CPU: Dual core ARM Cortex A7, Single core ARM Cortex M4

CLOCK FREQUENCY: 1.2GHz, 200 MHz

MEMORY

STORAGE: 64GByte eMMC

RAM: 512 Mbyte

OPERATING INDICATORS

ETHERNET: 2x, 10/100/1000 Gigabit, port 1 supports PoE Class 3

USB HOST: USB-A type dongles supported

USB OTG: Micro USB

MODULATION: DSSS

BAND: 2.4 GHz, 16 channels (2400-2495 MHz)

TRANSFER SPEED: 250 Kbits/sec (>10,000 complete image updates per hour with 2" black/white ESL)

RADIO: 2 independent

MAXIMUM LOAD: up to 2,500 ESLs per base station (with 2" ESLs and default ESL settings)

RANGE: typical 25 meter indoor; 100 meter open-field

PROTOCOL: IEEE 802.15.4 based

ENCRYPTION: none (default): 256-bit AES encryption (on request)

POWER

VOLTAGE REQUIREMENT: Minimum 9V, Max 16V

CURRENT CONSUMPTION: 200 mA

DURABILITY

TEMPERATURE:

Operation: 32 to 158 °F (0 to 70 °C)

Storage: -4 to 158 °F (-20 to 70 °C)

HUMIDITY:

Operation: 20 - 85% (non-condensing)

Storage: 20 - 85% (non-condensing)

PHYSICAL

DIMENSIONS WITHOUT ANTENNAS (WXHxD):

5.71 x 4.33 x 1.07 in (145 x 110 x 27.1 mm)

WEIGHT: Ca. 8.8 oz (250 g) (incl. antennas)

MOUNTING OPTIONS: wall or ceiling via the supplied mounting plate

REGULATORY AND SAFETY

PRODUCT COMPLIANCE: FCC, RoHS, EN60950-1, IEC60950-1, EN55022, EN55024, CE, REACH, Anatel

© Copyright Opticon. All rights reserved. This information is subject to change without prior notice. For availability, contact your local representative. EBS-50_2023a

