# EBS-40

## Basestation

### HIGHLIGHTS

Low power consumption
802.15.4 based protocol
Two Ethernet ports
Easy daisy chaining
2.4 GHz

≡ OPTICON

# EBS-40

## Basic product specifications

### OPERATION

**CPU:** Cortex M4 32-bit MCU **CLOCK FREQUENCY:** 120 MHz

### MEMORY

**INTERNAL FLASHROM:** 512 kB **INTERNAL RAM:** 256 kB **EXTERNAL RAM:** 8 MB

### OPERATING INDICATORS

**ETHERNET:** 10 Mbit/sec & 100 Mbit/sec, half duplex & full duplex
**MODULATION:** DSSS **BAND:** 2.4 GHz, 16 channels (2405-2480 MHz)
**TRANSFER SPEED:** 250 Kbits/sec (>10.000 complete image updates per hour with 2" ESL) **MAX. LOAD:** Up to 2500 ESLs per base station (with EE-201 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:** Min 4.5V, Max 6.6V **CURRENT CONSUMPTION:** 200mA

### DURABILITY

**TEMPERATURE IN OPERATION:** -10 to 50 °C / 14 to 122 °F **TEMPERATURE IN STORAGE:** -20 to 60 °C / -4 to 140 °F **HUMIDITY IN OPERATION:** 20 - 85% (noncondensing) **HUMIDITY IN STORAGE:** 20 - 85% (non-condensing)

### PHYSICAL

**DIMENSIONS WITHOUT ANTENNAS (W x H x D):** 145.1 x 110.1 x 32.4 mm / 5.71 x 4.33 x 1.28 in **WEIGHT:** Ca. 250 g / 8.8 oz (incl. antennas)

### REGULATORY & SAFETY

**PRODUCT COMPLIANCE:** FCC, RoHS, EN60950-1, IEC 60950-1, EN 55022, EN 55024, CE, REACH, Anatel **DIN MOUNTING RAIL FOR WALL OR CEILING:** 35 mm x 7.5 mm (w x h), minimum length is 100 mm