

# **Bridge E**

# The industrial wireless that simply works

This device enables an ultra-reliable real-time wireless link between Ethernet-based industrial devices.

# **System Features**

Configuration software available for Windows and Linux

UDP-based runtime control interface

Support for up to five freely configurable priority classes

#### **Wireless Interfaces**

Antenna	External SMA connectors [1]
Max. RF	Europe limited to 14 dBm e.i.r.p.
Output Power [2]	USA/CA up to 30 dBm e.i.r.p.

### **Wired Interfaces**

M12, 4-pole, d-coded	Ethernet with PoE
M12, 5-pole, a-coded	24 V DC and digital input

## **Communication Properties**

Channel Bandwidth	20 MHz	
Data Throughput per channel	Device: up to 700 kbit/s Installation: up to 14 Mbit/s	
Latency [3]	Down to 2 ms	
Reliability (packet loss rate (PLR)) (down to)	Short distance: Prioritized traffic: Best effort:	10 <sup>-9</sup> 10 <sup>-7</sup> 10 <sup>-5</sup>
Bridging Traffic	Packet-oriented protocols, such as PROFINET (PROFIsafe), Et- herNet/IP (CIP SAFETY), Power- Link, CC-Link, UDP, TCP/IP, etc.	
Network Participants per Channel	Maximum 20 (extension on request	t)
Total System Participants while Roaming	Only limited by amou	ınt of

- [1] depending on model either one (Antenna included) or two (Antenna and SMA IP65 cap included)
- [2] depending on antenna
- [3] application to application (ethernet interface)
- [4] triggered roaming between cells



## **General Properties**

General Properties		
Dimensions	84 × 82 × 55 mm <sup>[5]</sup>	
Weight	189 g <sup>[5]</sup>	
IP Protection Class	IP65	
Mounting Accessories	Wall mount DIN rail mount [6]	
Operating Temperature	-20 °C to +65 °C	
Range w/o roaming	Up to 150 m <sup>[7]</sup>	
Power Supply	24 V DC +/-10 % or 48 V DC (PoE 802.3at Type 1)	
Power Consumption	Max. 3.5 W; typ. 1 W	
Boot up Duration [8]	Fixed IP: DHCP:	~ 5 s ~ 10-15 s
Conformance		
EU (CE)	7 certified channels 5725–5875 MHz	
USA (FCC)/ Canada (ISED)	9 certified channels 5150–5250 MHz 5725–5850 MHz	

RoHS 3, WEEE, RED (UL, Atex on request)

[5] without antenna

Other Certification

- [6] included
- [7] depending on antenna, TX power and environment
- [8] standard boot option: fixed IP; DHCP: average boot time