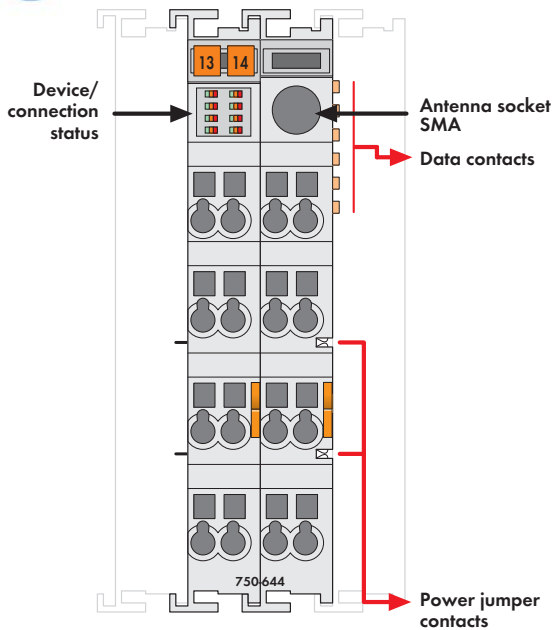
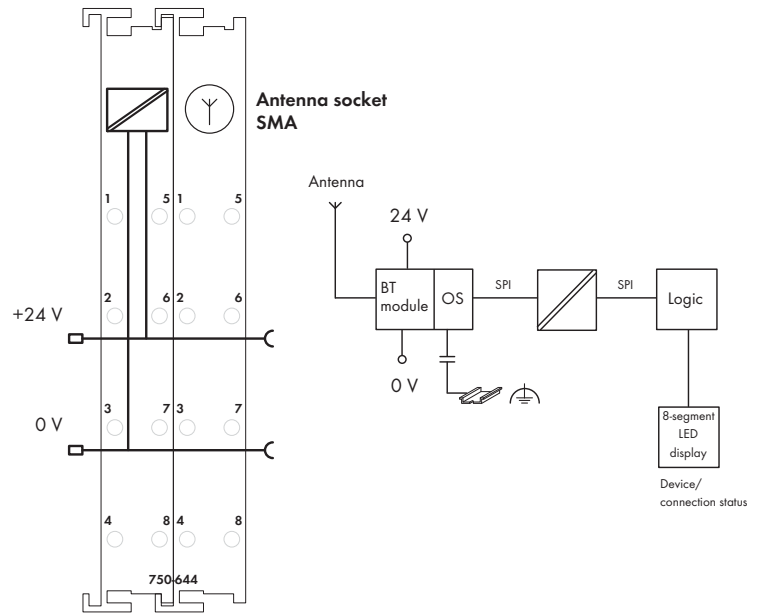


## Bluetooth®/RF Transceiver



Delivery without Mini WSB marker






The 750-644 I/O Module permits the wireless exchange of process data with up to seven other devices via Bluetooth 2.0 radio technology. Interoperability with Bluetooth devices is made non-proprietary via PAN and SPP Bluetooth profiles. A special profile for time-sensitive applications is also available.

Reliable connections over distances of up to 1000m are possible using the WAGO 758-912 external antenna.

The module's extended diagnostic functions include cyclic and acyclic state information. For quick on-site diagnostics, main information on operational status and radio connection is also displayed via 8 LEDs.

The I/O module can be operated with all standard fieldbus couplers/controllers from the WAGO-I/O-SYSTEM 750. Module configuration is performed locally via WAGO-I/O-CHECK.

Description	Item no.	Pack. unit	
<b>Bluetooth®/RF Transceiver</b>	<b>750-644</b>	<b>1</b>	
<b>Accessories</b>			
<b>Miniature WSB quick marking system,</b>			
	plain	<b>248-501</b>	5
	with marking	see pages 256 ... 257	
<b>External antenna</b>	WLAN/Bluetooth 2.4 GHz	<b>758-912</b>	1
<b>Approvals</b>			
Conformity marking	CE		
	FCC approval (This device complies with part 15 of FCC rules)		
	Bluetooth® approval		
<b>Technical Data</b>			
Dimensions (mm) W x H x L	24 x 64* x 100 * + excess length of the SMA socket approx. 6.5 mm		
Weight	85 g		
EMC CE-Immunity to interference	acc. to EN 61000-6-2 (2005), EN 61131-2 (2003)		
EMC CE-Emission of interference	acc. to EN 61000-6-3 (2007), EN 61131-2 (2003)		

Technical Data	
Radio technology	Bluetooth® 2.0 + EDR
Topology	Piconet (1 master, max. 7 slaves)
Coexistence	AFH and adaptive transmission power
Profiles	SPP, PAN
Operating modes	Communication mode with ad-hoc profile for high connectivity and real-time profile for time-critical applications, as well as configuration mode
Frequency band	2402-2480 MHz (license-free ISM band)
Transmitter power	up to 20 dBm (Bluetooth® Class 1)
Receiver sensitivity	-94 dBm
Range	max. 1000 m in open field, 100 m in buildings (using a WAGO external antenna, item no. 758-912)
Voltage supply (Bluetooth)	via DC 24 V field supply
Voltage supply (internal)	via system voltage DC/DC
Current consumption (Bluetooth)	approx. 8 mA, max. 35 mA
Current consumption (internal)	
Isolation	500 V antenna/system
Internal bit width	
Diagnostics (via visual indicator)	Device status, connection status 1)
Diagnostics (via process image)	Device status, connection status 1), time monitoring
Configuration	WAGO-I/O-CHECK and WAGO-I/O-PRO CAA
1) Quality of radio connection, signal strength, interference	