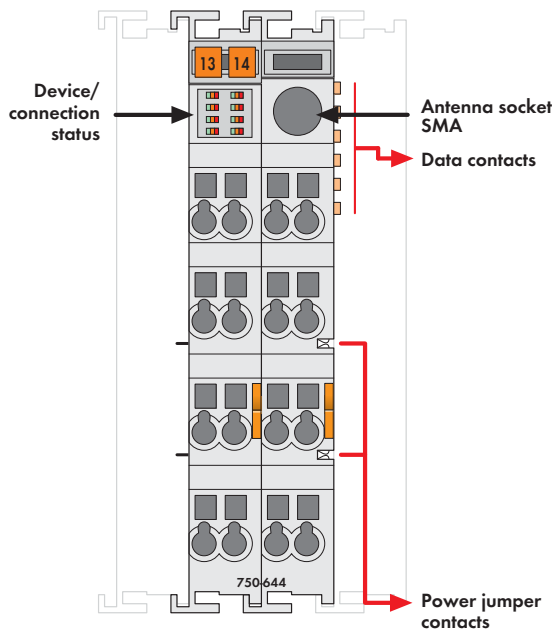
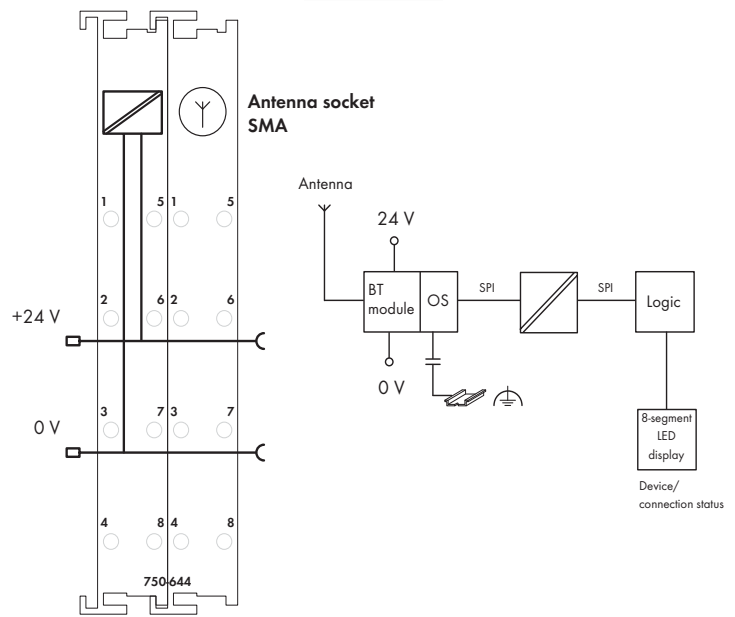


Bluetooth®/RF Transceiver



Delivered without miniature WSB markers










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.

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.

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.

Description	Item No.	Pack. Unit
Bluetooth®/RF Transceiver	750-644	1
<b>Accessories</b>		
<b>Miniature WSB Quick marking system</b>		
 plain	248-501	5
with marking	see Section 11	
<b>External antenna</b> WLAN/Bluetooth 2.4 GHz	758-912	1
<b>Approvals</b>		
	FCC approval (This device complies with part 15 of FCC rules)	
	Bluetooth® approval	
Conformity marking	CE	
Korea Certification		
 UL 508		
 ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4	
 TÜV 07 ATEX 554086 X	I M2 Ex d I Mb, II 3 G Ex nA IIC T4 Gc, II 3 D Ex tc IIIC T135°C Dc	
IECEx TUN 09.0001 X	Ex d I Mb, Ex nA IIC T4 Gc, Ex tc IIIC T135°C Dc	

Technical Data	
Wireless 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
Transmission range	max. 1000 m in open field, 100 m in buildings (using a WAGO external antenna, item no. 758-912)
Voltage supply (Bluetooth)	via 24 V DC field supply
Voltage supply (internal)	via system voltage DC/DC
Current consumption (Bluetooth)	approx. 8 mA, max. 35 mA
Current consumption (internal)	approx. 20 mA
Isolation	500 V antenna/system
Internal bit width	12, 24, 48 bytes configurable; i ncl. 1 byte control/status
Diagnostics (via visual indicator)	Device status, connection status <sup>1)</sup>
Diagnostics (via process image)	Device status, connection status <sup>1)</sup> , time monitoring
Configuration	WAGO-I/O-CHECK and WAGO-I/O-PRO CAA
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 immunity of interference	acc. to EN 61000-6-2, EN 61131-2
EMC emission of interference	acc. to EN 61000-6-3, EN 61131-2
<sup>1)</sup> Quality of radio connection, signal strength, interference	