

BALLUFF

sensors worldwide



Industrial RFID Systems BIS U

The right data at the right time at the right place



more added value

Industrial RFID Systems BIS U

Increase quality and productivity



With over 50 years of sensor experience, Balluff is a leading global sensor specialist with its own line of connectivity products for every area of factory automation. Balluff is based in Germany and has a tight international network of 54 representatives and subsidiaries.

Mature technology, individual solutions – more efficiency!
Fully exploit the potential of high quality.

Balluff stands for comprehensive systems from a single source, continuous innovation, the most modern technology, highest quality and greatest reliability and prides itself on distinctive customer orientation, custom-tailored solutions, fast worldwide service and outstanding application assistance.

High-quality, innovative products – certified in accordance with DIN ISO 9001:2008 (EN 29001) – are a secure foundation for optimized value creation for our customers.

Whether electronic and mechanical sensors, rotary and linear transducers, identification systems or optimized connection technology for high-performance automation, Balluff masters not only the entire technological variety with all of the different operating principles, but also provides technology that fulfills regional quality standards and is suitable for use worldwide. Wherever you are in the world, Balluff technology is never far away. You won't have to look far for you nearest Balluff expert.

Balluff products increase performance, quality and productivity around the world every day. They satisfy prerequisites for meeting demands for greater performance and cost reductions on the global market. Even in the most demanding areas. No matter how stringent your requirements may be, Balluff delivers state-of-the-art solutions.



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BIS U

more added value

- 100% quality
- High efficiency
- Increased economy

For 100% quality and maximum reliability – even at large distances

The Industrial RFID BIS U ensures flexible communication with fast read/write cycles. Even in highly dynamic applications. The BIS U thereby ensures 100% quality and, with an operating range of up to 6 m, bridges even large distances.

And it does this economically, since BIS U can detect and process multiple data carriers in the same field. Regardless of how you align the data carrier – you are completely flexible with the circularly polarized antenna. Our rugged BIS U systems are simple to integrate into host controller systems: worldwide standards are not only the newest technology, they also bring investment security.

BIS



Basic Information and Definitions

Areas of Application

more added value

- Reliable identification over long distance
- Detection of multiple data carriers in the same field
- Fastest data processing, even in dynamic applications
- More process transparency

Areas of application

Bringing together the material and the corresponding information – that is the challenge in logistics. UHF technology makes an important contribution here. Particularly in conveying systems or in the area of logistics and distribution – in which it is not always possible to reproducibly detect load carriers within a few centimeters of the same location – the use of UHF makes sense. With ranges of up to several meters, they have enough performance reserve to reliably detect individual load carriers even from great distances. Even if the load carriers, i.e. pallets, are packed with multiple objects: UHF technology can be used here to detect and process multiple transponders in the same field. Thus, load carriers can be moved past, e.g., so-called RFID gates and automatically detected via UHF. Without completely unstacking the pallet.

The quantity of data on the transponders plays a secondary role here – in many cases, it is sufficient to uniquely identify the transponder. The assignment takes place in a higher-level database. This simplifies tracking even beyond company boundaries.

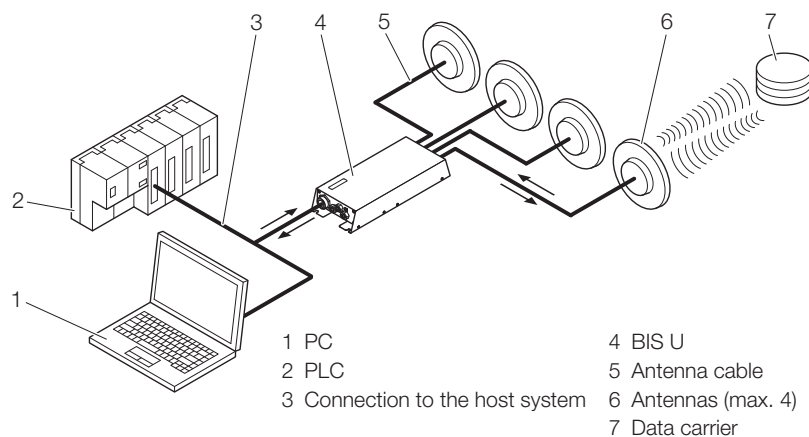
A handbook containing the physical fundamentals, reference antennas and parameters, characteristics of the components and system behavior for the operation of a UHF system is available on our website: www.balluff.com/industrial-rfid

Functional principle Identification systems

The BIS U Identification System is classified as a non-contacting system with read and write function. This allows it to transport not only programmed information that is fixed in the data carrier, but also to collect and pass on current information.

The main components of the BIS U Identification System are:

- Reader
- Antennas
- Data carrier



Industrial RFID Systems BIS U

Tags or Transponders



BIS U

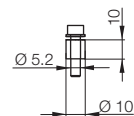
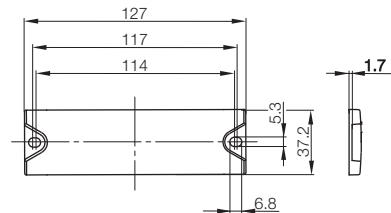
Transponder

- Fast mounting with two holes
- Directly on metal with holder
- Rugged housing for closed-loop applications

Dimensions	127x37.2x7
Housing material	PPS-GF40
Weight	18 g
Ordering code	BIS 00NL
Part number	BIS U-100-01/CA
User data	512 bits
Frequency	840...960 MHz
Insulation class acc. to IEC 60529	IP 67
Memory capacity read/write	96...480 bit EPC
Memory capacity read-only	32-bit ID, 64-bit unique ID
Standards	EPC global™, Class 1, gen 2, ISO 18000-6C
Ambient temperature	–40...+85°C
Storage temperature	–40...+85°C

Tags or Transponders

Antennas
Accessories – Antennas
Processors TCP/IP and RS232
Accessories – Processors
Handheld
Configuration Software, Service, Alpha-numerical Directory



Labels

The applications are as varied as the labels that are used. A wide range of variants arises here from the contact surface, the maximum size and even the required protection class. We will be happy to advise you as to whether, and, if so, which labels may be used in your application.

We look forward to hearing from you: tecsupport@balluff.com

Ordering code BAM01LW

Part number BIS Z-SP-003

Fastener set consisting of:
2 plastic distance rollers
2 socket cap screws with hexagon socket, ISO4762-M 5X22-8,8-A2B
2 washers D 125-A 5,3-ST-A2P

Industrial RFID Systems BIS U

Antennas

An important part of the system are the antennas. Together with the transponder, they are largely responsible for the range and the illumination of the application area. The power available to the antenna can be flexibly set via the reader. The frequency range for UHF systems is dependent on the region of use. There are, thus, country-specific variants here as with the readers. Regardless of whether you install the antennas near gates or plan to use them in a conveyor line – the wide range of accessories simplifies integration in all places of use.

Antennas from Balluff stand for

- Simple mounting with standard accessories
- Metal connector for secure connection
- Rugged housing for use where you need it



Dimensions	
Housing material	
Weight	
Ordering code	
Part number	
Frequency range	
Approved radiated power	
Antenna gain	
Antenna impedance	
Connection type	
Degree of protection	
Ambient temperature T _a	
Dispersion angle	



Industrial RFID Systems BIS U

Antennas



For USA/Canada!
902...928 MHz



For Europe!
865...868 MHz

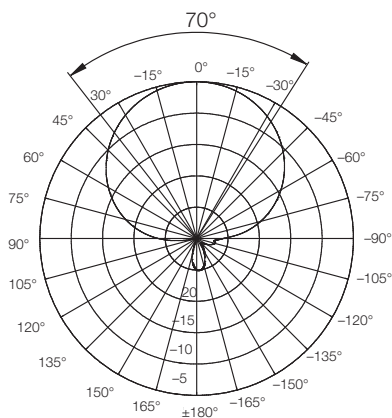
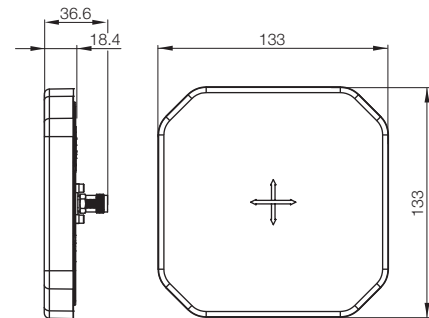
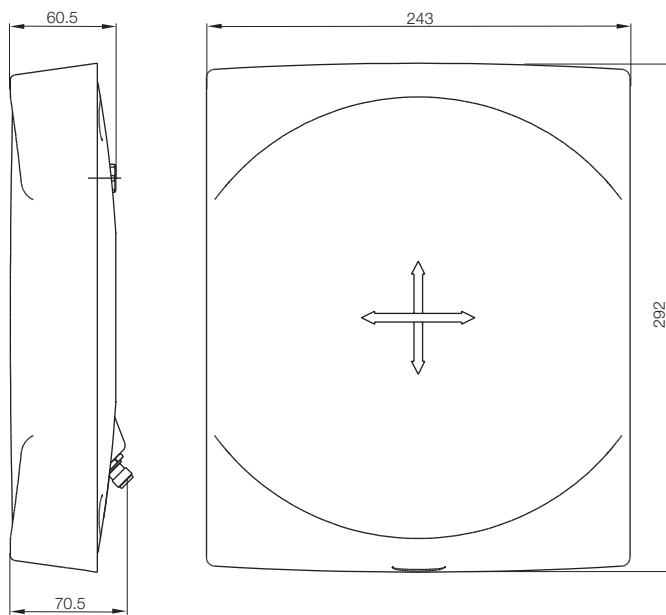


For Europe!
865...868 MHz

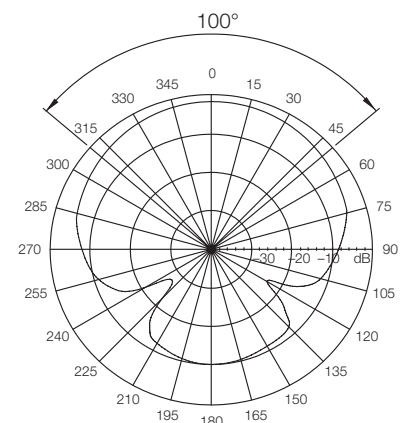
BIS U

292×243×60.5	292×243×60.5	133×133×18.4
PS	PS	PC
960 g	960 g	365 g
BIS00MC	BIS00MH	BIS00P0
BIS U-300-C1-TNCB	BIS U-300-C0-TNCB	BIS U-301-C0-TNCB
902...928 MHz	865...868 MHz	865...868 MHz
< 2 W ERP ETSI EN 302208	< 2 W ERP ETSI EN 302208	< 0.5 W ERP ETSI EN 302208
8.4 dBic	8.4 dBic	5.5 dBic
50 Ω	50 Ω	50 Ω
TNC socket	TNC socket	TNC socket
IP 54 (with connector)	IP 54 (with connector)	IP 67 (with connector)
-25...+55°C	-25...+55°C	-30...+70°C
68° vertical, 70° horizontal	68° vertical, 70° horizontal	100° vertical, 100° horizontal

Tags or Transponders
Antennas
Accessories – Antennas
Processors TCP/IP and RS232
Accessories – Processors
Handheld
Configuration Software, Service, Alpha-numerical Directory



Radiation pattern, horizontal

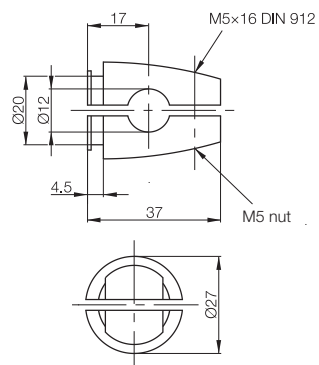


Industrial RFID Systems BIS U

Accessories – Antennas



Description	Clamping cylinder	
Type	For 1 mounting rod Ø 12 mm	
Version		
Ordering code	BAM0031	
Part number	BMS CS-M-D12-IZ	
Material	GD-Zn	



Antenna

Mounting bracket

Adjustment head

Support bar

Base holder

Industrial RFID Systems BIS U

Accessories – Antennas

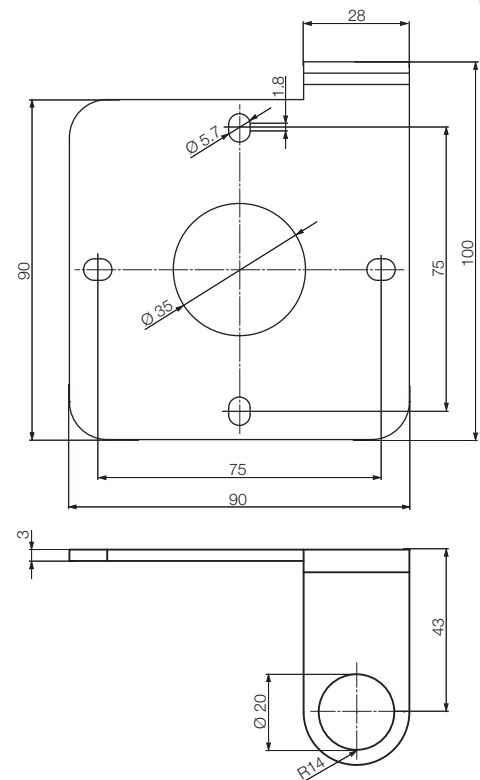
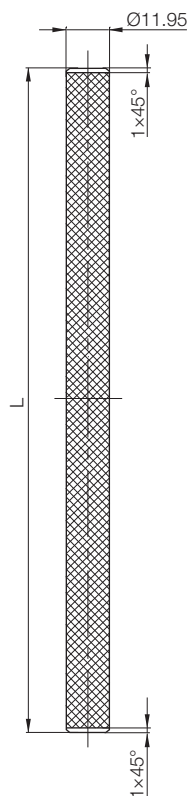
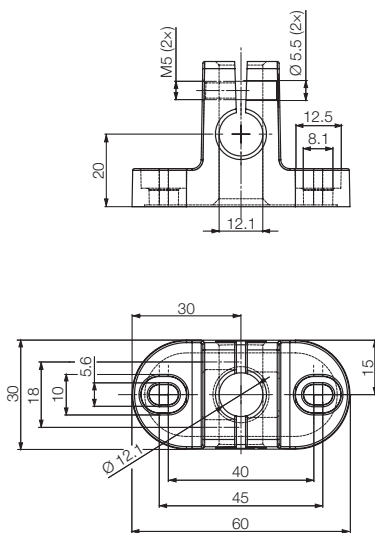


BIS U

Tags or Transponders
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Base holder For 1 mounting rod Ø 12 mm (vertical or horizontal) For mounting on base plates or profiles	Mounting rod Ø 12 mm Knurled, length 150 mm	Antenna holder for BIS U-300...TNCB BIS U-301...TNCB
BAM002W	BAM002R	BAM01JK
BMS CU-M-D12-A040-00	BMS RS-M-D12-0150-00	BIS Z-HW-003
Al anodized	Al anodized	V4A (1.4571)

The mounting rods are knurled full-length.
This prevents any position change.



You can find additional information on the topic of accessories in our Accessories Program catalog or online at www.balluff.com

Industrial RFID Systems BIS U

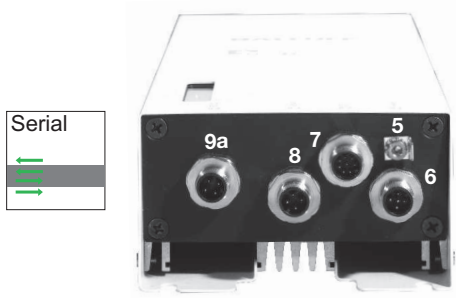
Processors BIS U-602_... TCP/IP
and RS232

- Simple mounting with standard accessories
- Metal connector for secure connection
- Rugged housing for use where you need it

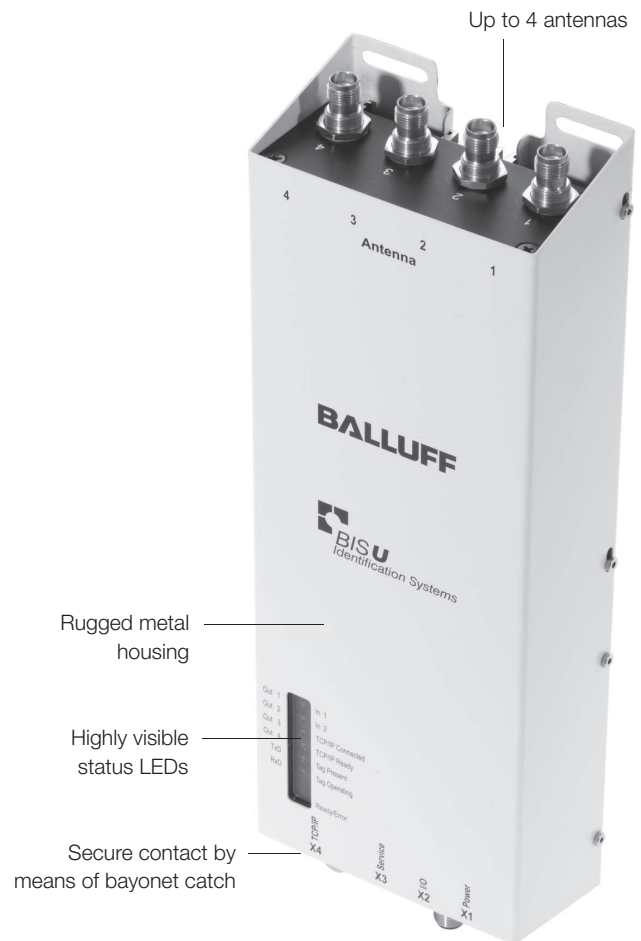
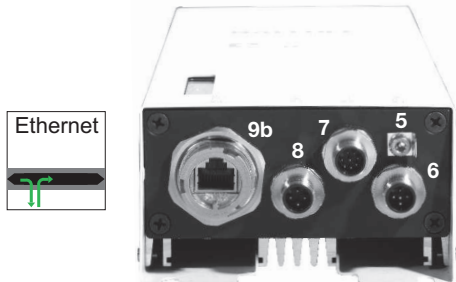
4 antennas on top



RS232 interface



Ethernet TCP/IP interface



- 1 Antenna port 1
- 2 Antenna port 2
- 3 Antenna port 3
- 4 Antenna port 4
- 5 Function ground FE
- 6 X1 power supply
- 7 X2 control inputs / outputs
- 8 X3 RS232 service interface
- 9a X4 application interface - RS232 variant
- 9b X4 application interface - TCP/IP variant

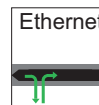
Ordering example:

BIS U-602_-0_-4-0_-ST2_

Hardware type	Software type	Antenna socket version	Interface	Customer connection
0 serial interface RS232	53 RS232	10 Country setting 865...868 MHz Europe	0 RS232	6 for serial device
7 Ethernet TCP/IP (Metal housing)	54 Ethernet TCP/IP	11 Country setting 902...928 MHz USA/Canada	6 Ethernet	7 for TCP/IP device

Industrial RFID Systems BIS U

Processors BIS U-602_-... TCP/IP and RS232



BIS U

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Function		Read/write		Read/write
Housing material		AlMgSi 0.5		AlMgSi 0.5
Weight		2100 g		2100 g
For Europe!				
Frequency range	Ordering code	BIS00M7		BIS00NA
865...868 MHz	Part number	BIS U-6020-053-104-00-ST26		BIS U-6027-054-104-06-ST27
For USA/Canada!				
Frequency range	Ordering code	BIS00R2		BIS00R1
902...928 MHz	Part number	BIS U-6020-053-114-00-ST26		BIS U-6027-054-114-06-ST27
Operating voltage		24 V DC $\pm$ 20 %		24 V DC $\pm$ 20 %
Ripple		$\leq$ 10 %		$\leq$ 10 %
Current consumption at 24 V DC		$\leq$ 1 A		$\leq$ 1 A
X3 service interface		RS232		RS232
X4 application interface		RS232		Ethernet
Characteristic impedance of antenna ports		50 Ω		50 Ω
Adjustable power at the antenna ports		17...30 dBm (50 mW...1 W)		17...30 dBm (50 mW...1 W)
X1 power supply		V _s 24 V DC: panel connector M12, 5-pole		V _s 24 V DC: panel connector M12, 5-pole
X2 control inputs / control outputs		M12 panel connector, 8-pin		M12 panel connector, 8-pin
X3 service interface		M12 panel connector, 4-pin		M12 panel connector, 4-pin
X4 application interface		M12 panel connector, 4-pin (BIS U-6020)		Bayonet connector RJ45 (BIS U-6027)
Antenna ports 1 - 4		Antenna socket R-TNC		Antenna socket R-TNC
Degree of protection per IEC 60529		IP 65		IP 65

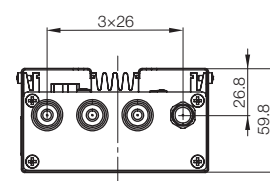
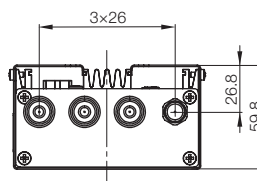
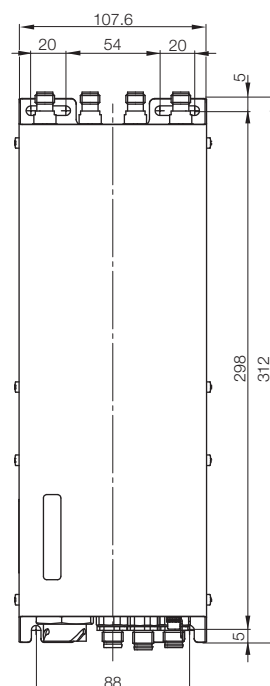
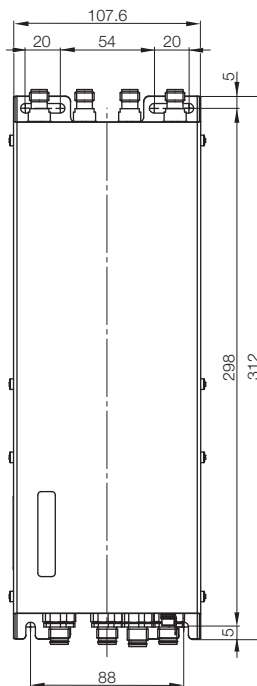
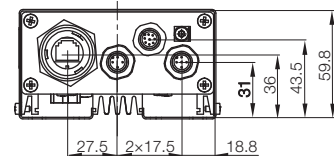
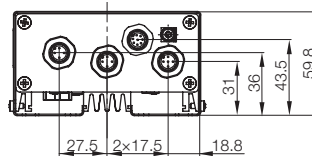
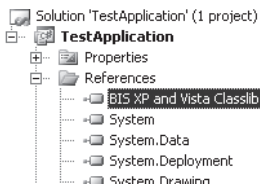
Included in the scope of delivery:

- BIS U-602_
- 5x closure cap
- BIS Software-CD
- Condensed manual in printed form (DE/EN)

Accessories (please order separately)
DLL for integrating the protocol in
PC-based controller or evaluation unit.

Ordering code BAE00F2

Part number BIS-Z-SW-UHF-DLL



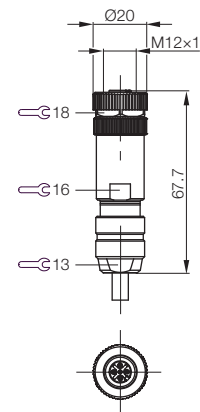
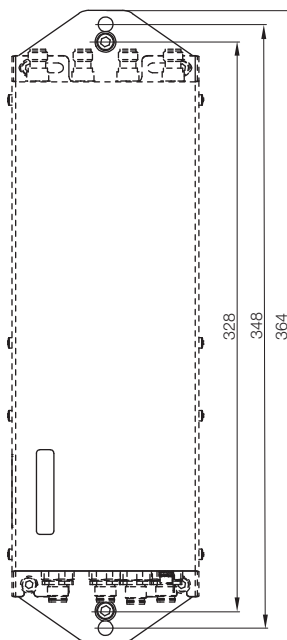
Industrial RFID Systems BIS U

Accessories – Processors BIS U-602_...



Description	Fastening plate		
Type		5-pin, female	
Version		for connecting to processors	
		supply voltage	
Ordering code	BAM01KN	BCC06ZN	
Part number	BIS Z-HW-004	BCC M475-0000-1A-000-01X575-000	
Ordering code			
Part number			
Ordering code			
Part number			
Ordering code			
Part number			
Connector		M12 - field-attachable	
Cable diameter		5...8 mm	
Conductor cross section		0.14 mm²...0.75 mm²	
Degree of protection per IEC 60529		IP 67	
Ambient temperature		-25...+85 °C	
Cable			
Surge impedance			

For mounting on profile rail, steel screw connection.



Included for mounting are:
 2 BIS Z-HW-004 retaining plates
 4 socket cap screws with
 hexagon socket M5×10 DIN 912, A2, 8.8
 2 socket cap screws with
 hexagon socket M6×12 DIN 912, A2, 8.8
 4 washers 5 DIN 125, A2
 2 washers 6 DIN 125, A2

Industrial RFID Systems BIS U

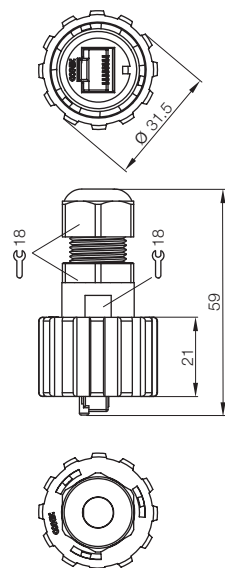
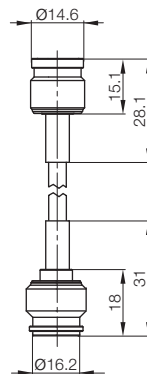
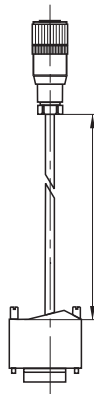
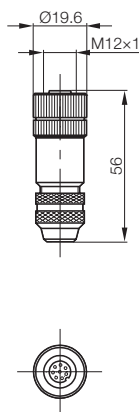
Accessories – Processors BIS U-602_-...



BIS U

		Adapter cable	Connection cable	RJ45 coupling
	8-pin, female for connecting to processors RS232 service interface	for connecting to processors BIS U-6020-053-104-00-ST26 BIS U-6027-054-104-06-ST27	for connecting to processors and antenna	for Ethernet TCP/IP
	BCC00YA	BCC00PL	BAM01HL	BCC09N2
	BKS-S115-00	BIS-C-522-PVC-02	BIS U-500-EF-01	BCC E878-0000-Z1-41X8T4
			BAM01HM BIS U-500-EF-02	
			BAM01HN BIS U-500-EF-05	
			BAM01HP BIS U-500-EF-10	
	M12 6...8 mm	Serial interface RS232 to PC 5.8 mm	TNC connector 7/16"	
			5 mm	4.58 mm
			0.94 mm	
	IP 67 -40...+85 °C	IP 67 -5...+80 °C	IP 68 -40...+85 °C	IP 67 -20...+60 °C
		PVC	FRPE	
			50 Ω	

Tags or Transponders
Antennas
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Handheld
Configuration Software, Service, Alpha-numerical Directory



Crimping tool for RJ45 connector 11030273

Industrial RFID Systems BIS U

Handheld

For enhanced operating convenience

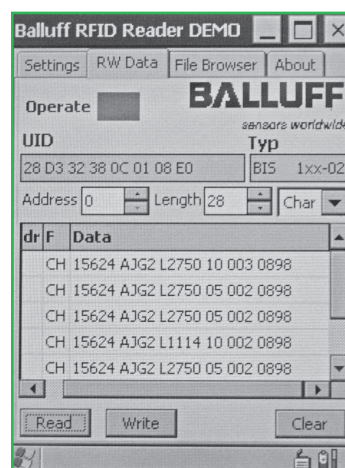
For portable writing and reading BIS-U-transponders.

Easy operation thanks to

- Touchscreen with large color display
- Windows CE®
- Preinstalled Balluff software and keyboard or stylus.

Ideal even for poor light conditions and harsh environments! Data transfer via optional WLAN, Bluetooth or wired USB. The handheld is also modular for expandability.

Handheld Standard
BIS U-870-1-008-X-000
including charger and
stylus



Industrial RFID Systems BIS U

Handheld

BIS U

Tags or Transponders
Antennas
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Function	Read/write
Housing material	ABS
Weight	585 g
Ordering code	BAE00EE
Part number	BIS U-870-1-008-X-000
Indicator	TFT touchscreen display
Power supply	3.7 V rechargeable battery pack
Capacity	4000 mA/h
Interface	Bluetooth
Operating temperature	-10...+50°C
Degree of protection per IEC 60529	IP 65
Accessories	Charging power supply and stylus
Order accessories separately	Docking station and pistol grip

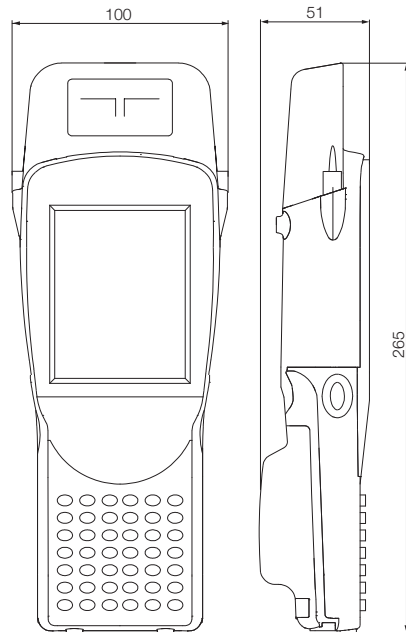


- PSION-based UHF handheld
- Windows CE®
- Touchscreen
- Delivered with software development kit (SDK)
- Includes charger and stylus
- Bluetooth "on-board"

Optional

- WLAN
- Handle
- 1D/2D barcode reader
- Docking station

Customer-specific software on request:
tecsupport@balluff.com



Additional convenience

A pistol grip is provided for ergonomic comfort.



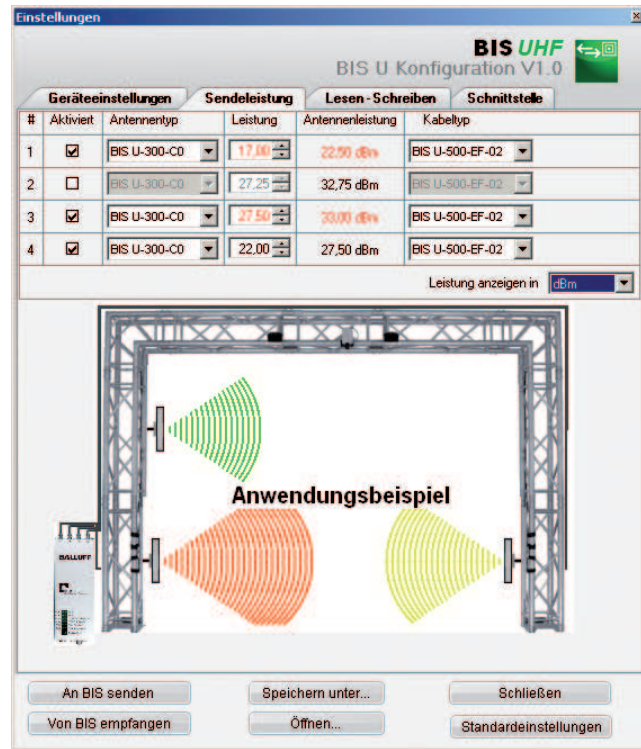
Industrial RFID Systems BIS U

Configuration Software

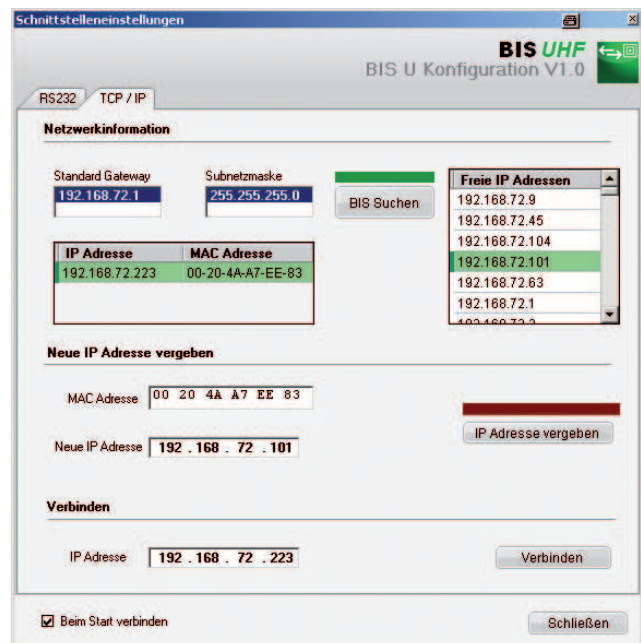
Parameters are configured using the "BIS UHF Manager" software. One requirement is that the processor is connected to the controlling system. The parameter settings can be overwritten at any time. The parameters can be saved in an XML file so that they can be retrieved whenever needed.

Example applications

Setting the transmission power and dependency on the used antenna



The BIS U-6027 processor and the controlling system communicate via Ethernet. Assigning a unique IP address associates the processor with a network.



Step 1 Preamalysis

Description of the installation conditions and physical characteristics:

- Mechanical installation
- Power limits
- Ambient parameters
- Detection type
- Transponder types
- Stationary/mobile read/write devices

Step 2 Feasibility

- Project description and definition of objectives
- Type and characteristics of the solution
- Where are the weak points
- Selection of system components

Step 3 Solution suggestion

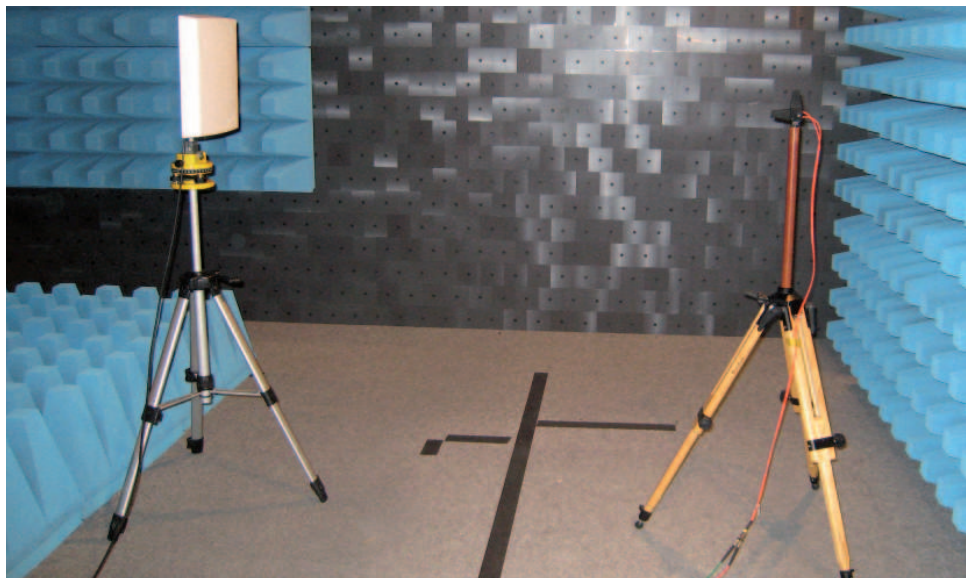
- Preparation of samples and test settings
- Testing of RFID technology in the actual environment
- Performance comparison of various applications

Step 4 Project coaching

- Control of system integrators
- Support in all launch phases
- Project documentation and knowledge integration
- User training

We assist you in finding a solution to your RFID task with short decision paths and personal contacts – from design to implementation. The objectives and chances of success of your RFID identification task are objectively analyzed and the system design refined.

The RFID system components are then selected. The solution design phase is concluded with a temporary test setup on-site on the system. You thereby receive valuable information for RFID use in your environment and are then able to perform a realistic ROI assessment.



We are happy to help!

Tel. +49 7158 173-401
+49 7158 173-727
E-mail: TecSupport@balluff.de

Alphanumerical Directory

Part number	Ordering code	Page
BCC E878-0000-Z1-41X8T4	BCC09N2	13
BCC M475-0000-1A-000-01X575-000	BCC06ZN	12
BIS U-100-01/CA	BIS00NL	5
BIS U-300-C0-TNCB	BIS00MH	7
BIS U-300-C1-TNCB	BIS00MC	7
BIS U-301-C0-TNCB	BIS00P0	7
BIS U-500-EF-01	BAM01HL	13
BIS U-500-EF-02	BAM01HM	13
BIS U-500-EF-05	BAM01HN	13
BIS U-500-EF-10	BAM01HP	13
BIS U-6020-053-104-00-ST26	BIS00M7	11
BIS U-6020-053-114-00-ST26	BIS00R2	11
BIS U-6027-054-104-06-ST27	BIS00NA	11
BIS U-6027-054-114-06-ST27	BIS00R1	11
BIS U-870-01-008-x-000	BAE00EE	15
BIS Z-HW-003	BAM01JK	9
BIS Z-HW-004	BAM01KN	12
BIS Z-SP-003	BAM01LW	5
BIS-C-522-PVC-02	BCC00PL	13
BIS-Z-SW-UHF-DLL	BAE00F2	11
BKS-S115-00	BCC00YA	13
BMS CS-M-D12-IZ	BAM0031	8
BMS CU-M-D12-A040-00	BAM002W	9
BMS RS-M-D12-0150-00	BAM002R	9

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Object Detection

Inductive sensors BES, cylinder sensors BMF, magnetic field sensors BMF, capacitive sensors BCS for object detection, ultrasonic sensors BUS for object detection, photoelectric sensors BOS, fiber optic devices BFB, fiber optics BFO, angle sensors BWL, through-beam fork sensors BGL, optical window sensors BOW, light grids BLG, contrast sensors BKT, luminescence sensors BLT, color sensors BFS, mechanical and inductive single and multiple position switches BNS



Linear Position Sensing

Micropulse® transducers BTL, magnetic linear encoder system BML, incremental encoders BDG, absolute encoders BRG, inductive displacement system BIW, inductive positioning system BIP, inductive distance sensors BAW, magnetoinductive distance sensors BIL, capacitive distance sensors BCW, photoelectric distance sensors BOD, ultrasonic sensors BUS for analog distance measurement



Fluid Sensors

Pressure sensors BSP, capacitive sensors BCS for level detection



Industrial Identification

Industrial RFID systems BIS, vision sensors BVS



Industrial Networking and Connectivity

Connectors and connection cables BCC, valve connectors BCC, passive splitter boxes BPI, active splitter boxes BNI, IO-Link, bus systems (Profibus, Profinet, CC-Link, DeviceNet, EtherNet), inductive couplers BIC, wireless systems BWT, power supplies BAE, electrical devices BAE



Accessories

Brackets and mountings, assembly system BMS

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