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BIS U-626-069-1X1-06-S3X

Ultra High Frequency Passive Radio Frequency, Identification Processor

INSTALLATION GUIDE

This document provides instructions and information designed to assist users in the hardware setup of the BIS U-626-069-1x1-06-S3x Processor . For configuration details see the BIS U-62_ Processor Manual.

PACKAGE CONTENTS	
Qty	Description
1	BIS U-626-069-1x1-06-S3x Processor
1	UHF Series Configuration Tag
1	This Installation Guide
1	BCC06ZF Power Connector

TECHNICAL DATA

ELECTRICAL FEATURES		
Power Supply	12 to 30 VDC	
DC Input Current	600 to 270 mA	
Communication Interface	Ethernet IP, TCP/IP, MODBUS TCP	
Baud Rate	10/100 Mbps	
RADIO FEATURES	EU	US
Frequency (MHz) ETSI EN 302 208 FCC part 15.247	 865 to 868 -	 - 902 to 928
Number of Channels	4 fixed	50 hopping
Frequency Tolerance	± 10 ppm over entire temp range	
Air Interface	EPC C1G2	
Conducted Output Power	500 mW (27 dBm) max	
Antenna Connector	Reverse TNC	
ENVIRONMENTAL FEATURES		
Operating Temperature	-20°to +50 ℃ (-4°to +122 ℉)	
Storage Temperature	-20°to +70 ℃ (-4°to +158 ℉)	
Humidity max.	90% non condensing	
Vibration Resistance EN 60068-2-6	14 mm @ 2 to 10 Hz; 1.5 mm @ 13 to 55 Hz; 2 g @ 70 to 200 Hz; 2 hours on each axis	
Shock Resistance EN 60068-2-27	30 g; 11 ms; 3 shocks on each axis	
Protection Class EN 60529	IP65	
PHYSICAL FEATURES		
Dimensions	164 x 112 x 48 mm (6.46 x 4.41 x 1.88 in)	
Weight	560 g (19.8 oz)	
Enclosure	Powder Coated Aluminum	
USER INTERFACE		
LED Indicators	READY, RF, COM, DEFAULT IP, CUSTOM IP	

* When all connectors and antenna are correctly installed.

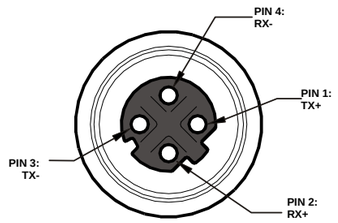
The BIS U-626-069-1x1-06-S3x Processor and its antenna are intended for indoor use only

GENERAL VIEW

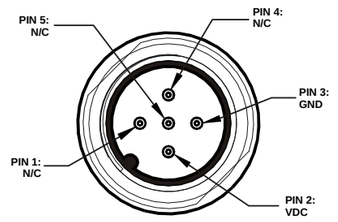


CONNECTIVITY

M12 4-pin D-Coded Female Connector (for Ethernet)



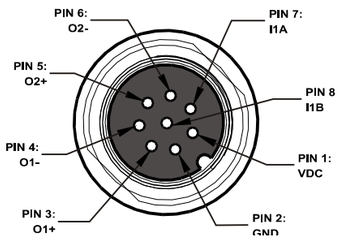
M12 5-pin Male Connector (for Power Supply)



N/C = Not Connected

DIGITAL I/O (-12 MODELS)

M12 8-pin Female Connector (Digital I/O)

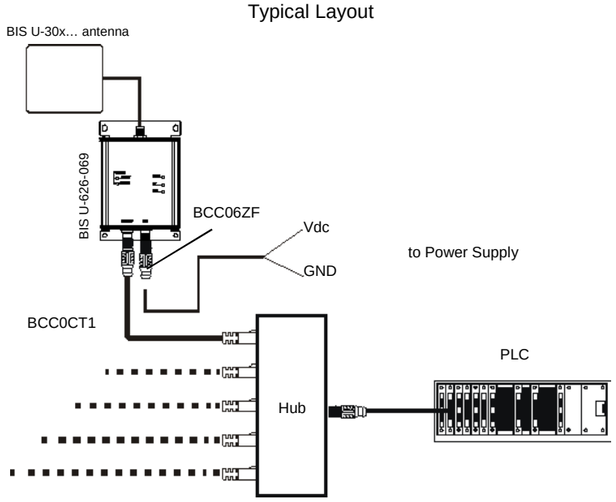


This connector is available on models BIS U-620-067-1x1-04-S32.
See the BIS U-62_ Processor Manual for details.

LED INDICATORS

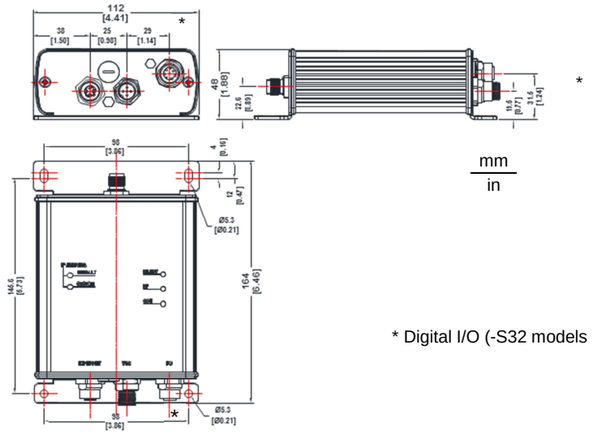
green	**READY**	The READY LED is ON after the power up sequence has completed.
amber	**RF**	The RF LED illuminates when RF power is being transmitted by the antenna.
amber	**COM**	The COM (communications) LED flashes ON and OFF when data is being transmitted between the antenna and a tag. When in Continuous Read mode, the COM LED will remain ON and will turn OFF briefly only while data is being read from or written to a tag.
amber	**DEFAULT**	Default IP Address enabled **(192.168.253.110)**
amber	**CUSTOM**	User assigned IP Address enabled

Typical Layout



See the BIS U-62_ Processor Manual for a complete list of accessories including alternative cables and connectors.

DIMENSIONS



* Digital I/O (-S32 models only)

INSTALLATION GUIDELINES

- RF performance and read/write range can be negatively impacted by the proximity of metallic objects and liquids. Avoid mounting the BIS U-3x… antenna within 15 cm (6 inches) of any metallic object or wet surface.
- Do not route cables near other unshielded cables or near wiring carrying high voltage or high current. Cross cables at perpendicular intersections and avoid routing cables near motors and solenoids.
- Avoid mounting the Processor near sources of EMI (electro-magnetic interference) or near devices that generate high ESD (electro-static discharge) levels. Always use adequate ESD prevention measures to dissipate potentially high voltages.
- If electrical interference is encountered (as indicated by a significant reduction in read/write performance), relocate the Processor to an area free from potential sources of interference.

INSTALLATION

The BIS U-626-069-1x1-06-S3x Processor is designed for Industrial Ethernet IP RFID applications, where the Processor is connected in an Ethernet IP TCP/IP network via compatible cables through a hub or directly to an Ethernet IP host.

1. Select a suitable location for the BIS U-62… Processor and BIS U-30… Antenna.
2. Mount the BIS U-30… Antenna (within the cable distance of the Processor) and attach the BIS U-30… Antenna cable as described in the installation guide included with the antenna.
3. Fasten the Processor to your mounting fixture using two ***M5 (#10)*** diameter screws (*not included*) and secure them with appropriate washers and nuts. Tighten screws to ***1.7 Nm or 15 lbs per inch ± 10%***. Connect the antenna cable to the UHF Processor .
4. Connect the BCC0CT1 M12 4-pin male connector to the M12 4-pin female interface connector on the BIS U-626-069-1x1-06-S3x Processor. Connect the BCC0CT1 RJ45 male connector to the LAN hub/switch. If connecting directly to the host computer you will need to use an additional crossover cable.
5. Build a power supply cable using the BCC06ZF M12 5-pin female connector. Use minimum 24 AWG wires for connection to the power supply lines according to the Vdc connector pinout. Connect the BCC06ZF M12 5-pin female connector to the M12 5-pin male connector on the Processor . Connect the other end of the cable (wires or user-supplied connectors) to the power supply.
6. Apply power to the Processor after all cable connections have been made. The LEDs on the unit will flash. The READY LED is ON after the power up sequence has completed. Then one of the Ethernet IP Address LEDs will remain on either Default or Custom.

To verify operations, download the Balluff Dashboard™ Configuration Tool from www.balluff.com. The Balluff Dashboard™ Configuration Tool allows users to configure and control their BIS U-626-069-1x1-06-S3x Processor s and send RFID commands for testing purposes.

For connection details see the BIS U-62_ Processor Manual and the Balluff Dashboard™ Configuration Tool Manual.

COMPLIANCE

Only BIS U-30… family antennas are certified for use with the BIS U-626-069-1x1-06-S3x Processors.

This product is intended to be installed by Qualified Personnel only.

This product must not be used in explosive environments.

Only connect Ethernet and dataport connections to a network which has routing only within the plant or building and no routing outside the plant or building.

See the BIS U-62_ Processor Manual for the Declaration of Conformity.

Power Supply

This device is intended to be supplied by a UL Listed or CSA Certified Power Unit with «Class 2» or LPS power source.

Nr. 890 428 E ⋮ Edition 1305; Subject to modification.