IntesisBox[®]

IBOX-BAC-DALI

DALI to BACnet Server gateway

Order Codes:

IBBACDAL064xxxx (64 ballasts, 1 DALI channel) IBBACDAL128xxxx (128 ballasts, 2 DALI channels)

HOW IT WORKS

The IntesisBox IBOX-BAC-DALI Gateway has been specially designed to work as a translator between a DALI installation and BACnet IP and/or BACnet MSTP based control and monitoring systems.

IntesisBox acts as a master in the DALI bus, allowing both BACnet IP and BACnet MSTP client/master devices to read and write on all configured DALI signals.

BACnet MSTP devices are connected to the serial port of the gateway, while BACnet IP devices are connected to the Ethernet port. On the DALI side, the gateway simulates a DALI master device allowing other DALI masters to be present in the DALI channels.

Configuration project is done through IntesisBox MAPS.

ø	1	ERE .	-	-				Int	osisBox's
-	a angener			- Orige					
				1000				100,000	
100	Band (hours and and in the second	and the second second				12.2.4	144	1.0	
1.5	tions to be brown in some fragment			B. (Bernet		6-6-6-line	- + 4		
	time has in hading at it was			A - Marine				14	
1 4 12	Interlection 10 No.			B. Lawrence		- 5. back	228	78	
12.0	total barrante and the second se		a	A			1.00		
. 2	Paciel Constant and Charles			S-reserved		8-8-cd	194		
1.4.20	Million of Child State of Child			6. Jakobal		- 6 feed	1224		
1 6	the sector with								
1.10	Name (a constant of the consta			B	1.0		19.0		
10.00	Last Margarette Int.			T UNITED 1	-18	0.7018	10.0		
1.1	for firsts rit			S. calend		- A had	219		
111 80	B.B.B.B.B. (1977)			B - 1000-0	1.16		18.0		
14 M	Advances on the Atria		14	di caganat	14	A 4-10-100	18.0		
14 27	Allera 2018 - 18-10			8 colored		- 2 Not 70%	22.0		
1.4 10	In 12 / Dec Prinches Streets			T 2807-10		- 2 Bid - 104	53.0		
1.0	And the support description of			8-1mm-1		1114			
10.00	for the of "I heddladed"			R. colored		17400	258		
1.4	for family 18			Summer .	-	- it had the	164.4		
14 12	destigand annual house (the fig.			8.1 mar.		- 0.8-m ⁻ 100	1.6.0		
18.10	Carolina and South State 10			B captor		3 March 1996	114		
1.0	Induite "confidence off			th Laboral	28	of heat line	244		
15.5	bilde he is to			B. (Bernell		- D Budy Size	14.0		
14.8	1.001 - 2 - 2 - W			Mar P	. 6.				
14 12	Section (and State And St.			P (Marriel	17	2 Audulton	254		
	And an an an an an an an an			0.000		to bearing	660		
	Whether and states with			B.1889-0			-+-		
data cyata	Star Line						rant ment LA 1	1110001111	COLUMN TRANSPORT
1000	in tribeliefs						Ber Prosser States of Con-	• freebules ()	 a sector forest

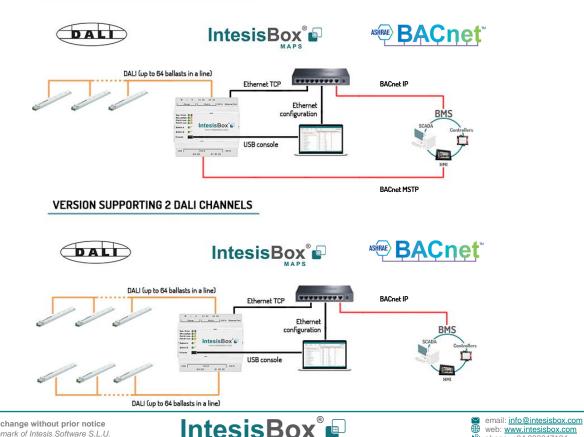
VERSION SUPPORTING 1 DALI CHANNEL

www.intesisbox.com	un / Error h. Link/Spd ort A TX/RX ort B TX/RX		IntesisBox 🖬	
onsole	utton B	••	www.intesisbox.com	

FEATURES

- Handles conversion between BACnet (IP & MSTP) and DALI ballasts
- Manages BACnet IP and BACnet MSTP simultaneously*
- DALI multi-master support
- · DALI line scan (ballast detection) and commissioning
- Configuration through IP or USB (Console) port •
- Datalogging through external USB port •
- Front cover LED indicators to provide easy to check communication status on both the Ethernet and serial ports
- Includes IntesisBox MAPS with automatic updates for both . IntesisBox MAPS and Gateway's firmware
 - * IBBACDALI128xxxx does not offer BACnet MSTP communication

INTEGRATION EXAMPLE

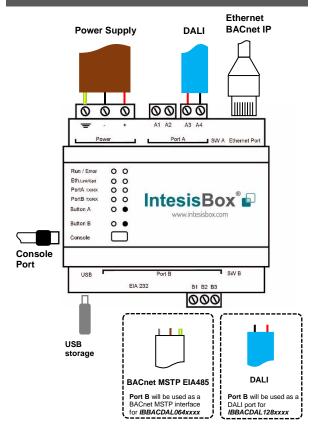


web: <u>www.intesisbox.com</u> phone: +34 938047134

6

This information is subject to change without prior notice IntesisBox is a registered trademark of Intesis Software S.L.U.

CONNECTIONS



PROTOCOLS

Digital Illumination Interface Alliance

DALI is a **dedicated protocol for digital lighting control** that enables the easy installation of robust, scalable and flexible lighting networks.

The digital nature of DALI allows two-way communication between devices, so that a device can report a failure, or answer a query about its status or other information.

Wiring is relatively simple; DALI power and data is carried by the same pair of wires, without the

For further information, please visit https://www.digitalilluminationinterface.org

need for a separate bus cable

BACnet is the Data Communication Protocol for BAChet is the Data Communication Protocol for Building Automation and Control Networks. Developed under the auspices of the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).

BACnet is an American national standard, a European standard, a national standard in more than 30 countries and an ISO global standard in more the protocol is supported and maintained by ASHRAE Standing Standard Project committee 135

email: info@intesisbox.com

web: www.intesisbox.com
 phone: +34 938047134

ĕ

For further information, please visit www.bacnet.org

COMMUNICATION **B**ACnet

	BACIICI		DALI	
	MSTP	IP	DALI	
Connection	EIA485 (3 wire isolated)	10BASE-T 100BASE-TX	DALI	
Date rate	9.6, 19.2, 38.4, 57.6, 76.8, 115.2kbps	10 Mbps 100 Mbps	1.2 kbps	
	Object types 0-AO (Analog Output)	Functions	DALI Fluorescent lights (DALI type 0)	
Data Types	1-AI (Analog Input) 2-AV (Analog Value)	Trend Logs	Emergency lights	
&	3-BO (Binary Output) 4-BI (Binary Input)	Calendars	(DALI type 1)	
Functions supported	5-BV (Binary Value) 13-MI (Multistate Input) 14-MO (Multistate Output) 15-MV (Multistate Value)	Schedules	LED modules (DALI type 6)	

ELECTRICAL & MECHANICAL FEATURES

Enclosure	Plastic, type PC (UL 94 V-0) Net dimensions (dxwxh): 90x88x56 mm Recommended space for installation (dxwxh): 130x100x100mm Color: Light Grey. RAL 7035	Battery	Size: Coin 20mm x 3.2mm Capacity: 3V / 225mAh Type: Manganese Dioxide Lithium
Mounting	Wall. DIN rail EN60715 TH35.	Console Port	Mini Type-B USB 2.0 compliant 1500VDC isolation
Terminal Wiring (for power supply and low-voltage signals)	Per terminal: solid wires or stranded wires (twisted or with ferrule) 1 core: 0.5mm ² 2.5mm ² 2 cores: 0.5mm ² 1.5mm ² 3 cores: not permitted If cables are more than 3.05 meters long, Class 2 cable is required.	USB port	Type-A USB 2.0 compliant Only for USB flash storage device (USB pen drive) Power consumption limited to 150mA (HDD connection not allowed)
Power	1 x Plug-in screw terminal block (3 poles) Positive, Negative, Earth 24VDC	Push Button	Button A: Check the user manual Button B: Check the user manual
Ethernet	1 x Ethernet 10/100 Mbps RJ45 2 x Ethernet LED: port link and activity	Operation Temperature	0°C to +60°C
	1 x DALI port (Plug-in screw terminal block orange 2 poles) 1500VDC isolation from other ports DALI power consumption: 240mA	Operational Humidity	5 to 95%, no condensation
Port A	Voltage rating: 16VDC 1 x Plug-in screw terminal block green (2 poles) Reserved for future use	Protection	IP20 (IEC60529)
Switch A (SWA)	1 x DIP-Switch for PORT A configuration: Reserved for future use	_	10 x Onboard LED indicators 2 x Run (Power)/Error
	IBMBSDAL064xxxx 1 x Serial EIA232 (SUB-D9 male connector) Reserved for future use 1 x Serial EIA485 Plug-in screw terminal block (3 poles) A, B, SG (Reference ground or shield)	LED Indicators	2 x Ethernet Link/Speed 2 x Port A TX/RX 2 x Port B TX/RX 1 x Button A indicator 1 x Button B indicator
PORT B	1500VDC isolation from other ports (except PORT B: EIA232) IBMBSDAL128xxxx 1 x Serial EIA232 (SUB-D9 male connector) Reserved for future use 1 x DALI port (Plug-in screw terminal block green 2 poles) 1500VDC isolation from other ports DALI power consumption: 240mA Voltage rating: 16VDC		
Switch B (SWB)	1 x DIP-Switch for serial EIA485 configuration: Position 1: ON: 120 Ω termination active Off: 120 Ω termination inactive Position 2-3: ON: Polarization active Off: Polarization inactive Off: Polarization inactive	- 100 mm	100 mm (w) 130 mm

IntesisBox[®]