



LigoWave

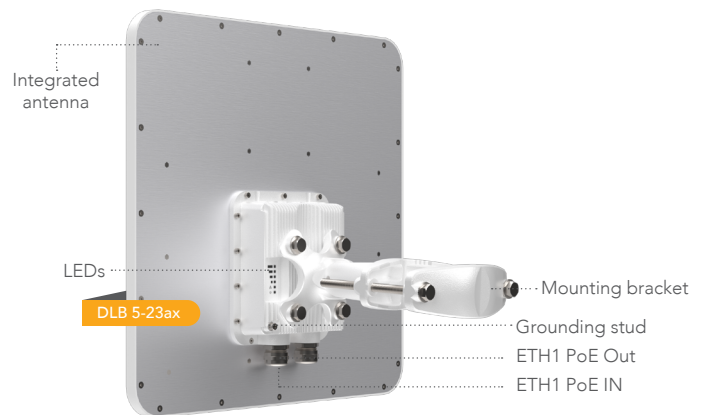


Broadband Digital Transmission System

LigoDLBax series

LigoDLBax installation

LigoDLB 5-23ax overview



PoE adapter



PoE connection

LigoDLBax series



!	AT	BE	BG	CZ	DK	EE	FR	DE	IS	IE	IT
	EL	ES	CY	LV	LI	LT	LU	HU	MT	NL	NO
	PL	PT	RO	SI	SK	TR	FI	SE	CH	UK	HR



LigoWave

Contact information

Technical support

If you encounter problems when installing or using this product, please consult the LigoWave website at www.Ligowave.com for:

- Direct contact to the LigoWave support centers.
- Frequently Asked Questions (FAQ).
- Download area for the latest software, user documentation and product updates.

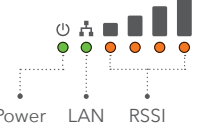
EU office:
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US office:
LigoWave Inc. Limited,
1710 Cumberland Point Drive Suite
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United States of America
For support: support@ligowave.com
For sales enquiries: sales@ligowave.com

Manufacturer:
LigoWave Inc. Limited,
1710 Cumberland Point
Drive Suite
Marrieta, GA30067
United States of America

LigoDLBax LEDs

The LigoDLBax series devices has 6 LEDs located on the back panel: power, LAN and 4 RSSI LEDs.



LigoDLBax local access

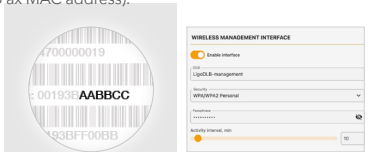
IP address:
DHCP client
(fallback IP 192.168.2.66)

Login:
Login: admin
Pass: Check device back label

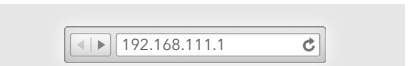
LigoDLBax remote wireless access

This is the easiest way to access the newly installed LigoDLBax device web management interface.

- Power off and power on again the LigoDLBax unit to switch it to a remote wireless management mode (it will be switched off automatically in 10 minutes of wireless inactivity).
- Scan for the wireless devices using your phone/tablet and choose the LigoDLB ax wireless network name, which is LigoDLB-mng-AABBCC (where AABBCC are the last three bytes of the particular LigoDLB ax MAC address).



- Launch the browser application and type the default LigoDLBax IP adress 192.168.111.1 in the address field.



- The login screen appears, after that the LigoDLBax is ready for configuration.

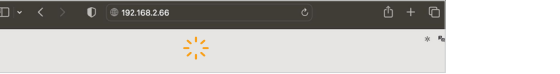
Username

Password

Ethernet access

By default LigoDLBax obtains the IP address from the DHCP server thus follow the steps to access device using Windows OS (for information how to access via other OS, refer to <http://www.ligo-wave.com/wiki/faq/>):

- Connect your PC to the LigoDLBax via Ethernet.
- Configure the PC using a static IP address on the 192.168.2.0 subnet (e.g. 192.168.2.10 with mask 255.255.255.0)
- Open a web browser and enter the default IP address of the AP device–192.168.2.66.



- Once the login page is loaded, enter the default administrator login and password. Click Login.

LigoWave

Username: admin

Password: *****

Login

Important information

Copyright

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Notice

Product size and shape are subject to change without prior notice, and actual product appearance may differ from that depicted in the user guide.
While the information in this guide has been compiled with great care, it may not be deemed an assurance of product characteristics. LigoWave shall be liable only to the degree specified in the terms of sale and delivery.

The reproduction and distribution of the documentation and software supplied with this product and the use of its contents is subject to written authorization from LigoWave.

Trademarks

LigoWave logo is trademark of LigoWave.
All other registered and unregistered trademarks in this document are the sole property of their respective owners

IC information

Français [French]

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:
(1) L'appareil ne doit pas produire de brouillage;
(2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Lors de l'installation et du fonctionnement de cet équipement, la distance minimale entre le radiateur et le corps doit être de 20cm.

English

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(S).
Operation is subject to the following two conditions:
(1) This device must not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

FCC information

English

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Model name

Model name	LigoDLB 5ax	LigoDLB 5-20ax	LigoDLB 5-23ax	LigoDLB 5-90ax	LGW-0014
Frequency	5.150 - 5.850 Ghz	5.150 - 5.850 Ghz	5.150 - 5.850 Ghz	5.150 - 5.850 Ghz	5.150 - 5.850 Ghz
Tx power	Up to 24 dBm (country dependent)				
Antenna gain	24.5 dBi (5GHz), 1.5 dBi (2.4GHz)				
Power Supply/Input	IEEE 802.3at (PoE+), 44-57V DC, max. 16 W				
Power Consumption	Up to 15W / 30W (with PoE output)				
Power Output	IEEE 802.3af (PoE), 44-57V DC, max. 15.4 W				

English

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF exposure guidelines, this equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

Antenna installation

WARNING: It is installer's responsibility to ensure that when using the authorized an-tennas in the United States (or where FCC rules apply), only those antennas certified with the product are used. The use of any antenna other than those certified with the product is expressly forbidden in accordance to FCC rules CFR47 part 15.204. The installer should configure the output power level of antennas, according to country regulations and per antenna type. Professional installation is required of equipment with connectors to ensure compliance with health and safety issues.

CE information

CE mark warning

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

To avoid usage of unlicensed channels please choose the correct Country on the Web Management Disclaimer. Keep in mind that the responsibility for the proper usage of the device in accordance with the regulatory rules lies with an installer or an equipment owner.
Operations in the 5.15-5.25GHz band are restricted to indoor usage only.

Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this manual and of the computer manufacturer must therefore be allowed at all times to ensure the safe use of the equipment.



According to European Directive 2002/96/EC requirement, equipment that contains this mark must not be disposed with unsorted municipal waste. It is a customer's responsibility to use local electric and electronic equipment waste collection point for this equipment disposal.

Declaration of conformity

Български [Bulgaria]

Česky [Czech]

Hrvatski [Croatia]

Dansk [Danish]

Nederlands [Dutch]

English

Eesti [Estonian]

Suomi [Finnish]

Français [French]

Deutsch [German]

Ελληνική [Greek]

Magyar [Hungarian]

Íslenska [Icelandic]

Italiano [Italian]

Latviski [Latvian]

Lietuvių [Lithuanian]

Malti [Maltese]

Norsk [Norwegian]

Slovensky [Slovak]

Slovenski [Slovenia]

Svenska [Swedish]

Español [Spanish]

Polski [Polish]

Português [Portuguese]

Român [Romanian]

Српски [Serbian]

Tagalog [Tagalog]

Tamil [Tamil]

ไทย [Thai]

Українська [Ukrainian]

Việt Nam [Vietnam]

中文 [Chinese]

한국어 [Korean]

日本語 [Japanese]

हिन्दी [Hindi]

С настоящото LigoWave декларира, че този тип радиосъоръжение LigoDLB 5ax, LigoDLB 5-90ax, LigoDLB 5-20ax, LigoDLB 5-23ax е в съответствие с Директива 2014/53/ЕО. Цялостният текст на ЕС декларацията за съответствие може да се намери на следния интернет адрес: <https://www.ligowave.com/downloads>

Timto LigoWave prohláše, že typ rádiového zařízení LigoDLB 5ax, LigoDLB 5-90ax, LigoDLB 5-20ax, LigoDLB 5-23ax je v souladu se směrnicí 2014/53/EU. Úplné znění EU prohlášení o shodě je k dispozici na této internetové adrese: <https://www.ligowave.com/downloads>

LigoWave ovdie izjavlja da je radijska oprema tipa LigoDLB 5ax, LigoDLB 5-90ax, LigoDLB 5-20ax, LigoDLB 5-23ax u skladu s Direktivom 2014/53/EU. Cjeloviti tekst EU izjave o skladnosti dostupan je na sljedećoj internetskoj adresi: <https://www.ligowave.com/downloads>

Hermed erklærer LigoWave, at radioudstyretypen LigoDLB 5ax, LigoDLB 5-90ax, LigoDLB 5-20ax, LigoDLB 5-23ax er i overensstemmelse med direktiv 2014/53/EU. EU-overensstemmelseserklæringens fulde tekst kan findes på følgende internetadresse: <https://www.ligowave.com/downloads>

Hierbij verklaar ik, LigoWave, dat het type radioapparatuur LigoDLB 5ax, LigoDLB 5-90ax, LigoDLB 5-20ax, LigoDLB 5-23ax conform is met Richtlijn 2014/53/EU. De volledige tekst van de EU-conformiteitsverklaring kan worden geraadpleegd op het volgende internetadres: <https://www.ligowave.com/downloads>

Hereby, LigoWave declares that the radio equipment type LigoDLB 5ax, LigoDLB 5-90ax, LigoDLB 5-20ax, LigoDLB 5-23ax is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: <https://www.ligowave.com/downloads>

Käesolevaga deklareerib LigoWave, et käesolev raadioseadme tüüp LigoDLB 5ax, LigoDLB 5-90ax, LigoDLB 5-20ax, LigoDLB 5-23ax vastab direktiivi 2014/53/EL nõuetele. Eli vastavusdeklaratsiooni täielik tekst on kättesaadav järgmisel internetiaadressil: <https://www.ligowave.com/downloads>

LigoWave vakuuttaa, että radiolaitetyypin LigoDLB 5ax, LigoDLB 5-90ax, LigoDLB 5-20ax, LigoDLB 5-23ax on direktiivin 2014/53/EU mukainen. EU-vaatimustenmukaisuusvakuutuksen täysimittainen teksti on saatavilla seuraavassa internetosoitteessa: <https://www.ligowave.com/downloads>

Le soussigné, LigoWave, déclare que l'équipement radioélectrique du type LigoDLB 5ax, LigoDLB 5-90ax, LigoDLB 5-20ax, LigoDLB 5-23ax est conforme à la directive 2014/53/UE. Le texte complet de la déclaration UE de conformité est disponible à l'adresse internet suivante: <https://www.ligowave.com/downloads>

Hiermit erkläre LigoWave, dass der Funkanlagentyp LigoDLB 5ax, LigoDLB 5-90ax, LigoDLB 5-20ax, LigoDLB 5-23ax der Richtlinie 2014/53/EU entspricht. Der vollständige Text der EU-Konformitätserklärung ist unter der folgenden Internetadresse verfügbar: <https://www.ligowave.com/downloads>

Με την παρούσα ο/η LigoWave, δηλώνει ότι ο ραδιοεξοπλισμός LigoDLB 5ax, LigoDLB 5-90ax, LigoDLB 5-20ax, LigoDLB 5-23ax, LigoDLB 5-23ax πληροί την οδηγία 2014/53/ΕΕ. Το πλήρες κείμενο της δήλωσης συμμόρφωσης ΕΕ διατίθεται στην ακόλουθη ιστοσελίδα στο διαδίκτυο: <https://www.ligowave.com/downloads>

LigoWave igazolja, hogy a LigoDLB 5ax, LigoDLB 5-90ax, LigoDLB 5-20ax, LigoDLB 5-23ax típusú rádióberendezés megfelel a 2014/53/EU irányelvnek. Az EU-megfelelőségi nyilatkozat teljes szövege elérhető a következő internetes címen: <https://www.ligowave.com/downloads>

Hér með lýsir LigoWave yfir því að þetta LigoDLB 5ax, LigoDLB 5-90ax, LigoDLB 5-20ax, LigoDLB 5-23ax tæki er í samræmi við grunnkröfur og aðrar kröfur, sem gerðar eru í tilskipun 2014/53/EU. Fullur texti ESB samræmisýrirlýsing er að finna á eftirfarandi netfangi: <https://www.ligowave.com/downloads>

Italiano [Italian]

Latviski [Latvian]

Lietuvių [Lithuanian]

Malti [Maltese]

Norsk [Norwegian]

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Tamil [Tamil]

ไทย [Thai]

Українська [Ukrainian]

Việt Nam [Vietnam]

中文 [Chinese]

한국어 [Korean]

日本語 [Japanese]

हिन्दी [Hindi]

Il fabbricante, LigoWave, dichiara che il tipo di apparecchiatura radio LigoDLB 5ax, LigoDLB 5-90ax, LigoDLB 5-20ax, LigoDLB 5-23ax è conforme alla direttiva 2014/53/UE. Il testo completo della dichiarazione di conformità UE è disponibile al seguente indirizzo Internet: <https://www.ligowave.com/downloads>

Ar šo LigoWave deklarē, ka radioiekārta LigoDLB 5ax, LigoDLB 5-90ax, LigoDLB 5-20ax, LigoDLB 5-23ax atbilst Direktīvai 2014/53/ES. Pilns ES atbilstības deklarācijas teksts ir pieejams šādā interneta vietnē: <https://www.ligowave.com/downloads>

LigoWave patvirtina, kad radijo įrenginiai LigoDLB 5ax, LigoDLB 5-90ax, LigoDLB 5-20ax, LigoDLB 5-23ax atitinka Direktyvą 2014/53/ES. Visas ES atitikties deklaracijos tekstas prieinamas šiuo interneto adresu: <https://www.ligowave.com/downloads>

B'dan, LigoWave, niddikjara li dan it-tip ta' taghmir tar-radju LigoDLB 5ax, LigoDLB 5-90ax, LigoDLB 5-20ax, LigoDLB 5-23ax huwa konformi mad-Direttiva 2014/53/UE. It-test kollu tad-dikjarazz-joni ta' konformita ta-UE huwa disponibbli f'dan l-indirizz tal-Internet li ghej: <https://www.ligowave.com/downloads>

LigoWave erklærer herved at utstyret denne LigoDLB 5ax, LigoDLB 5-90ax, LigoDLB 5-20ax, LigoDLB 5-23ax enheten er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 2014/53/UE. Den fulle teksten til EU-samsvarserklæringen er tilgjengelig på følgende internetadresse: <https://www.ligowave.com/downloads>

LigoWave týmto vyhlasuje, že rádiové zariadenie typu LigoDLB 5ax, LigoDLB 5-90ax, LigoDLB 5-20ax, LigoDLB 5-23ax je v súlade so smernicou 2014/53/EÚ. Úplné EU vyhlásenie o zhode je k dispozícii na tejto internetovej adrese: <https://www.ligowave.com/downloads>

LigoWave potrjuje, da je tip radijske opreme LigoDLB 5ax, LigoDLB 5-90ax, LigoDLB 5-20ax, LigoDLB 5-23ax skladen z Direktivo 2014/53/EU. Celotno besedilo izjave EU o skladnosti je na voljo na naslednjem spletnem naslovu: <https://www.ligowave.com/downloads>

Härmed försäkrar LigoWave att denna typ av radioutrustning LigoDLB 5ax, LigoDLB 5-90ax, LigoDLB 5-20ax, LigoDLB 5-23ax överensstämmer med direktiv 2014/53/UE. Den fullständiga texten till EU-försäkran om överensstämmelse finns på följande webbadress: <https://www.ligowave.com/downloads>

Por la presente, LigoWave declara que el tipo de equipo radioeléctrico LigoDLB 5ax, LigoDLB 5-90ax, LigoDLB 5-20ax, LigoDLB 5-23ax es conforme con la Directiva 2014/53/UE. El texto completo de la declaración UE de conformidad está disponible en la dirección Internet siguiente: <https://www.ligowave.com/downloads>

LigoWave niniejszym oświadcza, że typ urządzenia radiowego LigoDLB 5ax, LigoDLB 5-90ax, LigoDLB 5-20ax, LigoDLB 5-23ax jest zgodny z dyrektywą 2014/53/UE. Pełny tekst deklaracji zgodności UE jest dostępny pod następującym adresem internetowym: <https://www.ligowave.com/downloads>

O(a) abaixo assinado(a) LigoWave declara que o presente tipo de equipamento de rádio LigoDLB 5ax, LigoDLB 5-90ax, LigoDLB 5-20ax, LigoDLB 5-23ax está em conformidade com a Diretiva 2014/53/UE. O texto integral da declaração de conformidade está disponível no seguinte endereço de Internet: <https://www.ligowave.com/downloads>

Prin prezenta, LigoWave declară că tipul de echipamente radio LigoDLB 5ax, LigoDLB 5-90ax, LigoDLB 5-20ax, LigoDLB 5-23ax este în conformitate cu Directiva 2014/53/UE. Textul integral al declarației UE de conformitate este disponibil la următoarea adresă internet: <https://www.ligowave.com/downloads>



LigoWave