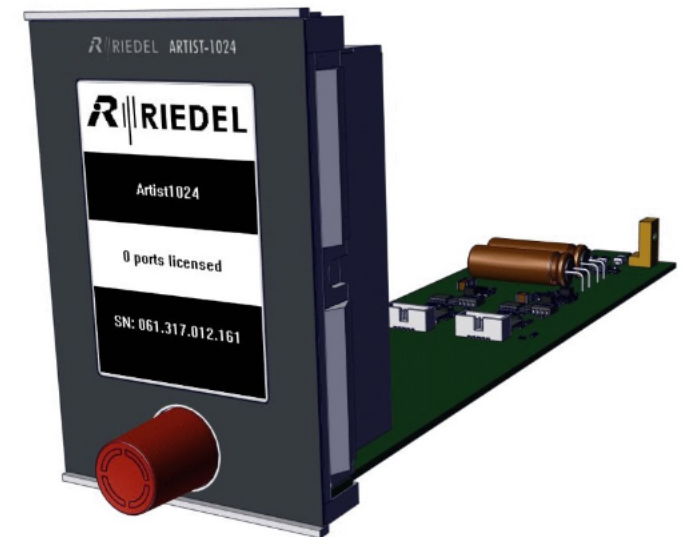


DIS-1024

Integration Guide

DRAFT
18.02.2021



Labeling Requirements

The host product needs clearly visible label on the outside of the housing.

The label must include the following text: "Contains FCC ID: YFJDIS1024" and "Contains IC: 8706A-DIS1024".

Regulatory statement

This device complies with Part 15 of the FCC Rules and with Industry Canada licence-exempt RSS standard(s). 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.

Le présent appareil est conforme aux CNR d'Industrie 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, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

The finished product is required to comply with all applicable FCC equipment authorizations regulations, requirements and equipment functions not associated with the transmitter module portion. For example requirements for unintentional radiators (Part 15 Subpart B), such as digital devices.

RF Exposure

This device must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment should be installed and operated keeping the radiator at least 20cm or more away from person's body.

Cet appareil ne doit pas être situé à proximité ou fonctionner en conjonction avec une autre antenne ou un autre émetteur. Cet équipement est conforme aux limites d'exposition aux rayonnements énoncées pour un environnement non contrôlé et respecte les règles les radioélectriques (RF) de la FCC lignes directrices d'exposition dans le Supplément C à OET65 et d'exposition aux fréquences radioélectriques (RF) CNR-102 de l'IC. Cet équipement doit être installé et utilisé en gardant une distance de 20 cm ou plus entre le dispositif rayonnant et le corps.

User Information

FCC Warning: Changes or modifications made to this equipment not expressly approved by Riedel may void the FCC authorization to operate this equipment.

Interference: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



10-005HB01AA-A01 DIS-1024 Integration Guide

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18.02.2021

1 Preface

Thank you for choosing a Riedel product.

This document provides general information about the DIS-1024 unit that is located in the Artist-1024 frame.

For further information, please refer to the [Riedel Website](#) or contact your local distributor or the Riedel headquarters in Wuppertal.

NOTICE


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1.1 Information


Symbols

The following tables are used to indicate hazards and provide cautionary information in relation to the handling and use of the equipment.

Danger	
	Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
The highlighted line indicates the activity to prevent the danger.	

Warning	
	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
The highlighted line indicates the activity to prevent the danger.	


Caution	
	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.
The highlighted line indicates the activity to prevent the danger.	

	This text is for generally information. It indicates the activity for ease of work or for better understanding.
---	---

1.2 Safety Instructions

Service

- All service has to be undertaken **only** by qualified Riedel service personnel.
- Do not plug in, turn on or attempt to operate an obviously damaged device.
- Never attempt to modify the equipment components for any reason.

Caution	
	All adjustments have been done at the factory before the shipment of the devices. No maintenance is required and no user serviceable parts are inside the module.

Environment

- Never place containers with any liquids on top of the devices.
- Never place the devices in areas of high dust particles or humidity.
- Be aware of the operating temperature of the systems (0 ... +45 °C / 32 ... 113 °F).
- If the equipment has been exposed to a cold environment and transferred to a warm environment, condensation may form inside the housing. Wait at least 6 hours before applying any power to the equipment.


ESD Safety

Device components shipped in antistatic bags are sensitive to damage from static electricity. You can easily generate potentially harmful static voltages when handling plastic or foam packaging or moving components over plastic or carpets. Please observe the following guidelines to avoid damage from electrostatic discharge (ESD), which may result in failures or destruction of components:

- When handling open cards, use an ESD wristband and ensure that it is in direct contact with your skin.
- If there is no grounding strap available, touch a grounded metal surface before removing or inserting the card from a device.
- Avoid contact between the cards and your clothing. ESD voltages emitted from clothing can damage components.
- When removing or installing a card, always place it with the heat sink facing upwards on an antistatic surface or in an ESD bag.
- When returning cards, put them in an ESD bag before packing it.

Disposal

Disposal of old Electrical & Electric Equipment (Applicable throughout the European Union and other European countries with separate collection programs).

	This symbol, found on your product or on its packaging, indicates that this product should not be treated as household waste when you wish to dispose of it. Instead, it should be handed over to an applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences to the environment and human health, which could otherwise be caused by inappropriate disposal of this product. The recycling of materials will help to conserve natural resources. For more detailed information about the recycling of this product please contact your local city office.
---	--

1.3 Technical Specifications

Electrical Specifications

Power supply	12 VDC \pm 20% Internal converter to supply the peripherals
Power Consumption	2.5W
NFC Interface	Frequency 13.56 MHz ISO/IEC 14443A; ISO/IEC 14443 B; NFCIP-1
Antenna	Internal antenna 42x58 mm Only the internal antenna is allowed to use!
Display	2.71" E-paper technology
MCU	STM32F412CGU
EEPROM	M24C32, I2C, 8k x 8
Electrical Interface	CAN 1 Mbit/s
Human Interface Device	Rotary Encoder with Switch

Overall

Product Name	DIS-1024
Article Numbers	6530040
Environmental Temperature	0 °C to +45 °C (Non-condensing)
Supply Voltage	12 VDC
Power Consumption	2.5 W
Dimensions (w×h×d)	59 × 89 × 212 mm
Weight	190 g

Applicable Standards

Europe	EN 300 330
USA	FCC 47 CFR Part 15.225
Canada	IC RSS-210
EMC	EN 301 489-1/-3

Certificates

USA	FCC ID: YFJDIS1024
Canada	IC: 8706A-DIS1024


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2 DIS-1024

The display shows system and license information of the Artist-1024 node. As the display uses e-paper technology, this information can be shown in the on and off state. Furthermore the DIS-1024 features NFC connectivity (future use).

The DIS-1024 displays following information:

- License information.
- Number of licensed ports.
- Basic configuration information to equip the Artist-1024 frame with the correct UICs and SFPS.
- Artist-1024 frame name in which the DIS-1024 is plugged in.
- Serial number of the Artist-1024 frame in which the DIS-1024 is plugged in.

 The DIS-1024 is only approved for use in a Riedel Artist-1024 frame.

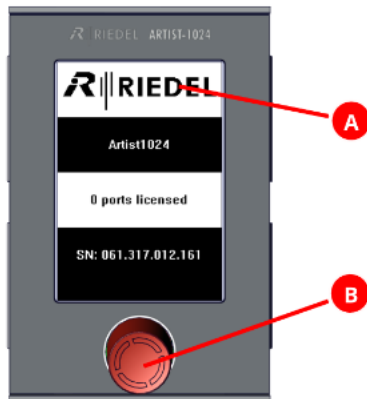



figure 1: DIS-1024 (front view)

- | | |
|----------|-----------------|
| A | E-paper display |
| B | Rotary encoder |

2.1 Artist-1024 Integration

 The DIS-1024 is only approved for use in a Riedel Artist-1024 frame.

The DIS-1024 is inserted into the Artist-1024 frame on the front right side:

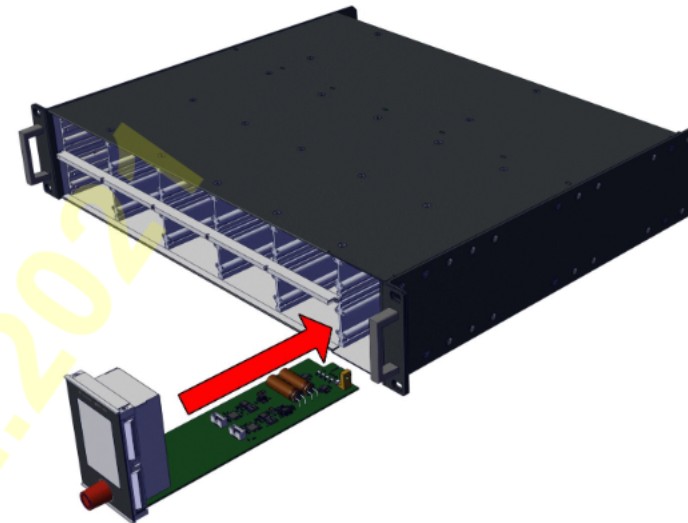


figure 2: DIS-1024 in Artist-1024 frame

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2.2 Display Content

Following status information is displayed when the power is off:

- Name of the Artist-1024 node
- Number of licensed ports
- Serial number of the Artist-1024 node



ARTIST-1024

32 ports licensed

SN: 9999123123123

figure 3: info display (node not powered)

If the Artist-1024 is connected to mains voltage, the default view is displayed:

- Basic configuration information is shown to equip the frame with the correct UICs and SFPs.
- The currently selected slot position is indicated by a bar above/below the corresponding position.

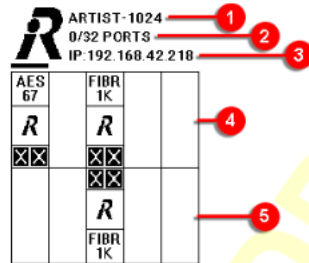


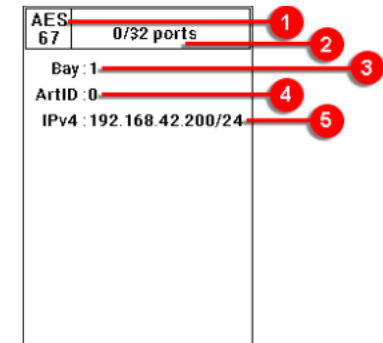
figure 4: info display (main view)

1	Name of the Artist-1024 node																
2	Number of configured/licensed ports																
3	IP address of the configuration port of the primary NIC (PNIC, bay 3)																
4	Example of the status info of the upper slots	<table border="1"> <tr> <td>AES 67</td> <td>FIBR 1K</td> <td></td> <td></td> <td></td> </tr> <tr> <td>R</td> <td>R</td> <td></td> <td></td> <td></td> </tr> <tr> <td>XX</td> <td>XX</td> <td></td> <td></td> <td></td> </tr> </table>	AES 67	FIBR 1K				R	R				XX	XX			
AES 67	FIBR 1K																
R	R																
XX	XX																
5	Example of the status info of the lower slots	<table border="1"> <tr> <td></td> <td>R</td> <td>FIBR 1K</td> <td></td> <td></td> </tr> <tr> <td></td> <td>R</td> <td>FIBR 1K</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		R	FIBR 1K				R	FIBR 1K							
	R	FIBR 1K															
	R	FIBR 1K															

Bay: 1	Bay: 2	Bay: 3	Bay: 4	Bay: 5
AES67-SIC	SIC (not equipped)	PNIC (primary)	SIC (not equipped)	SIC (not equipped)
Bay: 6	Bay: 7	Bay: 8	Bay: 9	Bay: 10
SIC (not equipped)	SIC (not equipped)	SNIC (secondary)	SIC (not equipped)	SIC (not equipped)

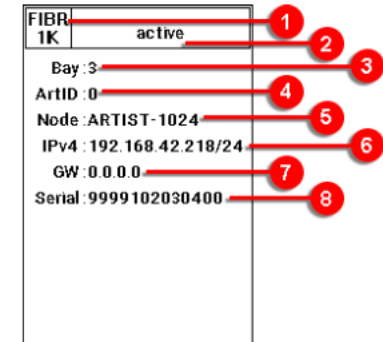
SIC (Status Info)

- 1 Transport Type
- 2 Number of ports configured/assigned in Director
- 3 Slot position of the respective card in the Artist-1024 node
- 4 Artist ID of the node
- 5 IP-address/netmask of the configuration port





NIC (Status Info)

- 1 Transport Type
- 2 Network interface active / standby
- 3 Slot position of the respective card in the Artist-1024 node
- 4 Artist ID of the node
- 5 Long Name of the Artist-1024 node
- 6 IP address/netmask of the NIC
- 7 Gateway of the SIC (if active)
- 8 Serial number of the frame



2.3 Operation

In the Artist-1024 can be navigated through the display as follows:

	Turning the rotary encoder	Select the next / previous slot A horizontal line is displayed above/below the currently selected slot position.
	Pushing the rotary encoder	<ul style="list-style-type: none"> • Enter selected slot / one layer down Status information of the respective card is displayed. • leave current slot / one layer back The display jumps back to the main view.

i The currently selected slot position is indicated by a bar above/below the corresponding position.

2.4 NFC Connectivity

The NFC functionality of the DIS-1024 inside the Artist-1024 frame is enabled as long as the mainframe is powered.

To establish the connection to an external device, hold the NFC contact point of the external device centrally in front of the DIS-1024 display with a maximum distance of 1 cm.



figure 5: NFC connectivity of DIS-1024

3 Appendix

3.1 Service

If you have any further questions, we offer comprehensive customer service options for this product including:

- Telephone Service
- Email Service
- Fax Service
- Configuration Support
- Trainings
- Repair

Your primary point of contact for any service issues is your local dealer.

In addition, Riedel Customer Service in Wuppertal, Germany is also available to assist you.

Telephone: +49 (0) 202 292 9400
(Monday - Friday, 8am – 5pm, Central European Time)

Fax: +49 (0) 202 292 9419

Or use the contact form on our website:
www.riedel.net > Services > Support

For repairs, please contact your local dealer. Your dealer will be able to help process your repair as fast as possible and/or arrange for the delivery of spare parts.

The address for repairs sent directly to Riedel Communications GmbH is:

Riedel Communications GmbH & Co. KG
- Repairs -
Uellendahler Str. 353
D-42109 Wuppertal
Germany

Please add a completed repair form to all your repairs.

The form can be found at the Riedel website:

www.riedel.net > Services > Repairs

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18.09.2021

