CE

EZYiD® Retro-fit System

ISC

Contents

1 **Introduction to EZYiD®**

Radio Frequency Identification (RFID), is a method of communicating information from one point to another point by use of electromagnetic waves (radio waves). RFID Technology has unique characteristics, making it beneficial for use in industrial systems.

The EZYiD Reader is a specially designed Ultra High Frequency (UHF) device, designed for use in conjunction with EZYiD RFID Tags, Cable Ties, Stickers and Universal Moulded Tags and also with EZYiD embedded hardware products. The Reader is designed to transfer unique serial number information from the tag to a computer, tablet or mobile phone device of the user's choice.

2 **Who Should Read this User Instruction Manual?**

The EZYiD Reader User Instruction Manual provides users with information about the features of the Reader, how to install, configure, operate and maintain it, together with troubleshooting information.
Before working with the EZYiD Reader, users should familiarise themselves with this manual and that of the device that they wish to use the Reader in conjunction with.

It is the responsibility of the seller to provide this instruction manual and it is the responsibility of the user to read and understand these instructions prior to use. If the Reader is used in a manner contrary to the specification of the manufacturer (as defined in this manual), the performance of the equipment may be impaired.

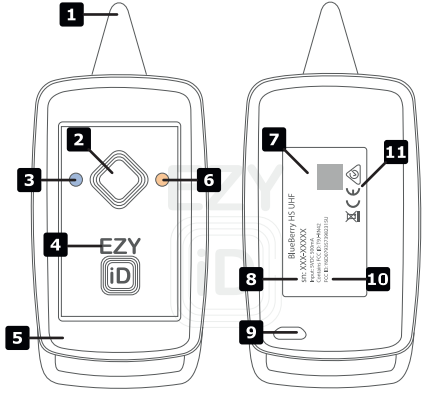
3 **Precautions of Use**

Attentively read all the precautions of use and the operating instructions before use.

NOTE: The Reader device has not been designed for use in processes or machineries for the monitoring and the safety of human life or for medical treatments.

4 **Nomenclature**

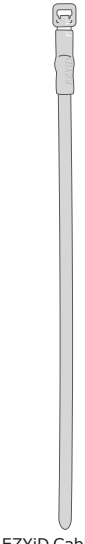
The Reader



1. Antenna
2. Central Button
3. LED (Blue)
4. EZYiD® Logo
5. Body of Reader
6. LED (Orange)
7. Product Information Label
8. Serial Number
9. Charging Port
10. Identification Numbers
11. Product Regulatory Information

EZYiD® Retro-fit System - Issue A - August 2019

EZYiD® Retrofittable System



EZYiD Cable Tie

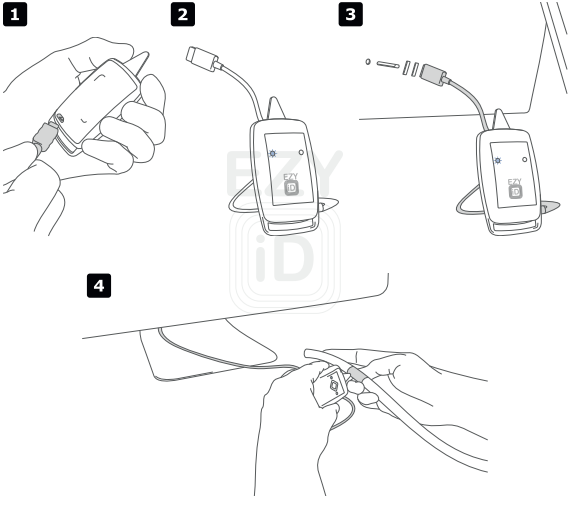
EZYiD Universal Moulded Tag

EZYiD Sticker

EZYiD Tag

(Not to Scale)

5 **EZYiD® Reader Operation**
5.1 **Charging the Reader**

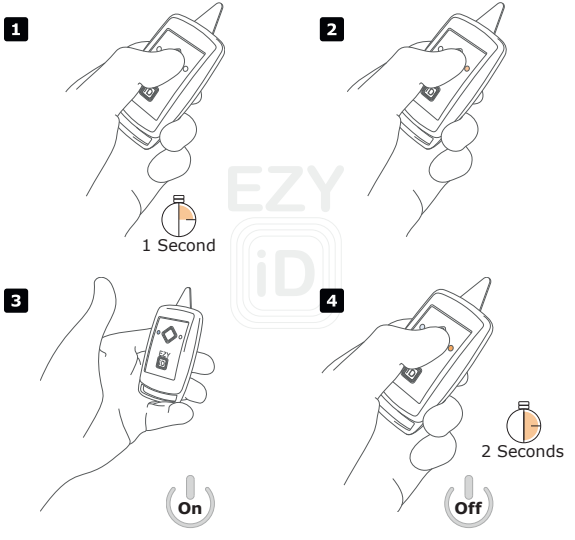


Insert the Micro USB into the portal on the back of the EZYiD Reader
Insert the USB into the computer, tablet or other USB charging portal
Flashing Blue Light (when charger cable unplugged) = Battery Low
Flashing Blue Light (when charger cable is connected to device and to power source) = Reader is charging
Solid Blue Light (when charger is connected to device and to power source) = Reader is fully charged

NOTE:

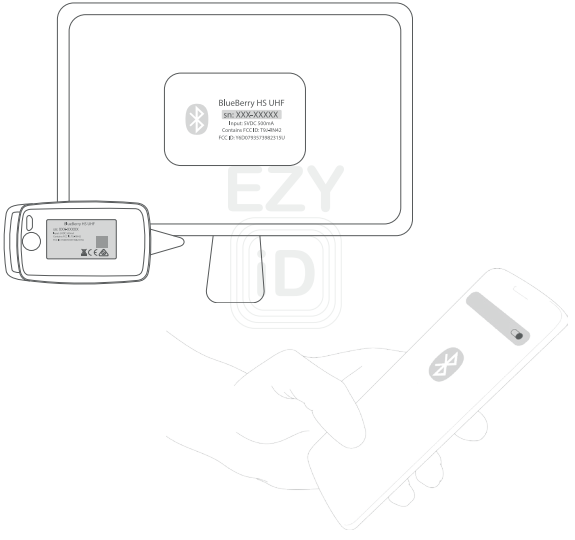
- The Reader remains fully operational and can be used to read Tags, while the device is re-charging
- As with all battery powered, re-chargeable devices, the device should be disconnected from the power supply
- The EZYiD Reader is fitted with a non-replaceable battery. This battery is capable of approximately 10,000 reads per charge.

5.2 **Powering the Reader**



1. Hold down the central diamond shaped button for one (1) second
2. An orange LED will appear on the right side
3. The LED will move to the left and appear in blue. Two (2) beeps will sound. The blue LED will remain on if the Reader has been turned on successfully
4. To turn the device off, hold down the central diamond shaped button. The blue light will flick to orange

5.3 **Pairing the Reader to Your Device**



The EZYiD Reader is a "Plug 'n' Play" device. It is not necessary to download any software onto your computer, tablet or mobile phone, in order for the EZYiD Reader to function.

Simply, turn on your EZYiD Reader, and follow the Bluetooth pairing instructions for your computer, tablet or mobile phone to pair the Reader to your personal device.

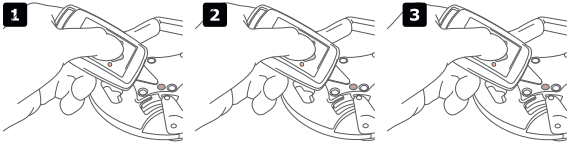
Your Reader can only be paired to one computer, tablet or mobile phone at a time in order for it to function correctly. If you wish to pair the Reader to a different personal device, ensure you have unpaired it from the original computer, tablet or mobile phone. To unpair the Reader from your computer/device, please refer to the operating instructions of your computer/device.

Note: The serial number of the Reader (shown as 'sn', on the label on the reverse side of the Reader), can be used to identify the Reader on your computer, tablet or mobile phone.

Status Notifications: Sounds & LED Lights

Status Indicator State	Indicates
One (1) sound	Device is on
One (1) flash orange LED	Device is readable & reader can identify & read the tag
	Reader is not paired to device
	Data is not being sent & stored to device
No Sound	Device is on
Two (2) LED, orange & blue	Device attempting to locate a readable tag & has not yet found such tag
	Device will search for readable tag for three (3) seconds before resetting
Three (3) short sounds	Device is on
One (1) flash orange LED	Tag is readable & reader can identify & read the tag
	Reader is paired to device
	Information from tag is being sent to & stored onto device
Flashing blue LED	Reader battery is low

Status Notifications When Reading: Sounds & LED Lights

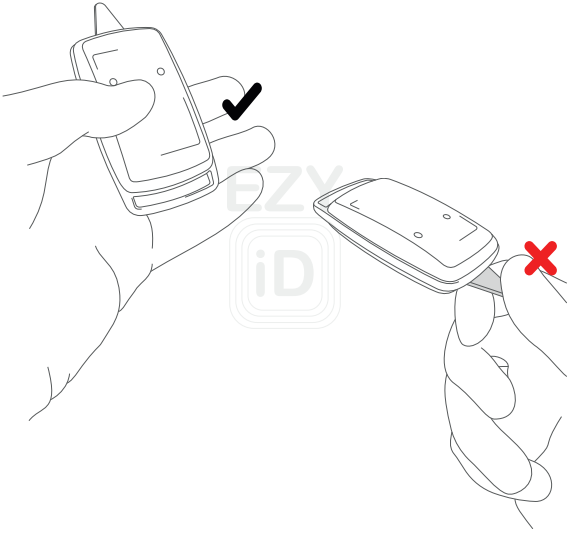


1 One beep with one flash of orange light:
[Successful Read, Unsuccessful Data Transfer]
After a single press of the central button, the device is on, the tag is readable and the reader is able to read the tag, but your Reader is not paired to a computer, tablet or mobile device. Therefore, data information is not being sent/stored on any device. [See section 5.3: Pairing the Reader to your Software]

2 No beep and both the blue and orange lights are on:
[Unsuccessful Read]
After a single press of the central button, the Reader device is on and it is currently trying to search for a readable tag but has not yet found a functioning tag to read. The Reader will attempt to find a readable tag for three (3) seconds. If a readable tag is not found, the orange light will go off, the blue will remain on and the user will need to attempt again to read a tag.

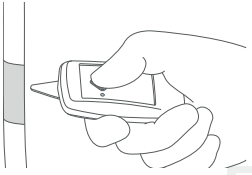
3 Three (3) short beeps with one flash of orange light:
[Successful Read & Successful Data Transfer]
After a single press of the central button, the device is on, the tag is readable, the Reader is able to successfully read the tag, your Reader is paired to your computer, tablet or mobile device and the information from the tag is being sent to and stored onto that device.

5.5 **How to Hold the EZYiD® Reader**

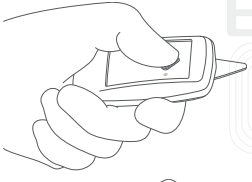


The EZYiD Reader should be held comfortably in one hand, ensuring that the antenna is not covered. Care should be taken not to press, hold or damage the antenna, as this may result in your Reader malfunctioning.

5.6 **Reading the EZYiD® Retrofittable System**



1
To scan, hold the Reader 2-3mm away from the tag

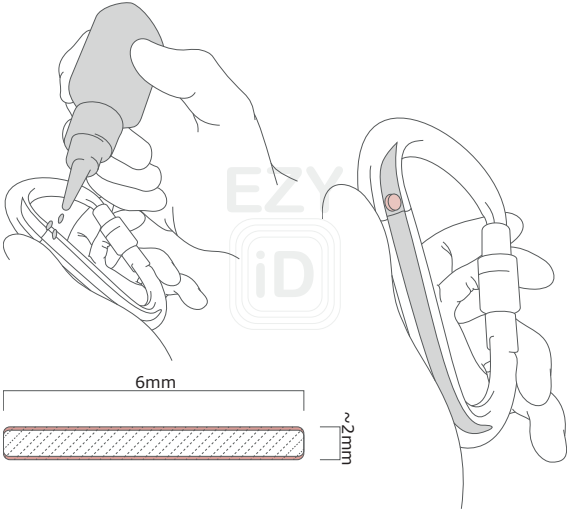


2
Press the central button. The Reader will search for a readable tag for 3 seconds

3
Repeat the process if a tag is not located. Different LED and sounds will notify you of the outcome

Hold the antenna closely (2-3mm) over the Tag, Sticker, Cable Tie or Universal Moulded Tag which needs to be read
Press down on the central button. The Reader will search for a readable tag for three (3) seconds
If a readable tag is not located, the Reader will reset and will need to be pressed again in order to read a tag. Different LED and sounds will notify you of the outcome of the read. (See Section 5.4: Status Notifications: LED Lights & Sounds).

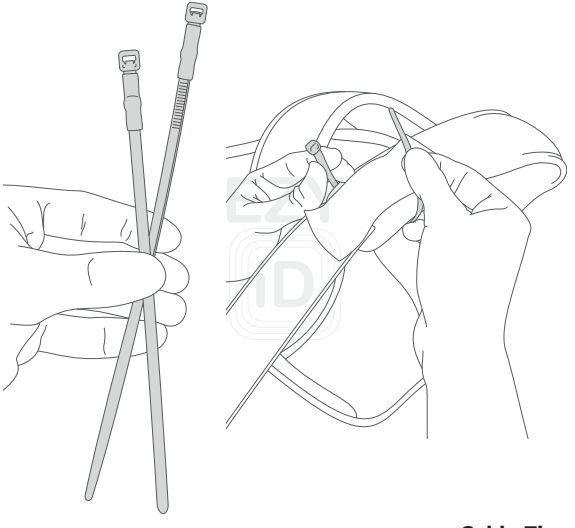
6 **EZYiD® Retrofittable Application**



Tags

Tags:
Tags are low profile, with a depth of ~2mm and diameter of 6mm. Tags can be applied to assets using a commonly available Contact Adhesive or Two-part Epoxy Resin (not supplied). It is the responsibility of the user to ensure that the adhesive used is suitable for use on the intended asset.

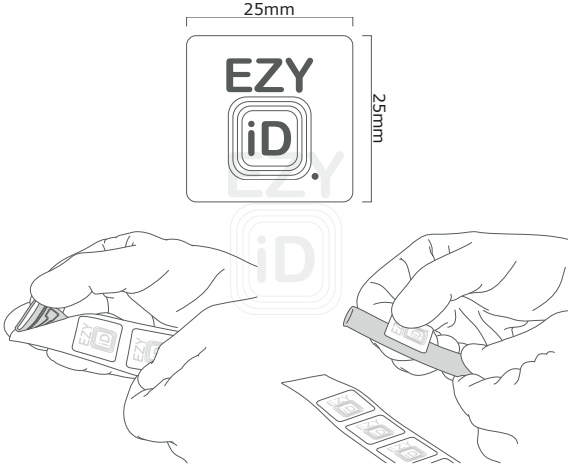
6 EZYiD® Retrofittable Application



Cable Ties

Cable Tie:
Cable Ties are fitted with an EZYiD Tag, near the buckle-end of the tie, thus allowing the Cable Ties to be fitted in the usual manner with any excess length of the Cable Tie trimmed.

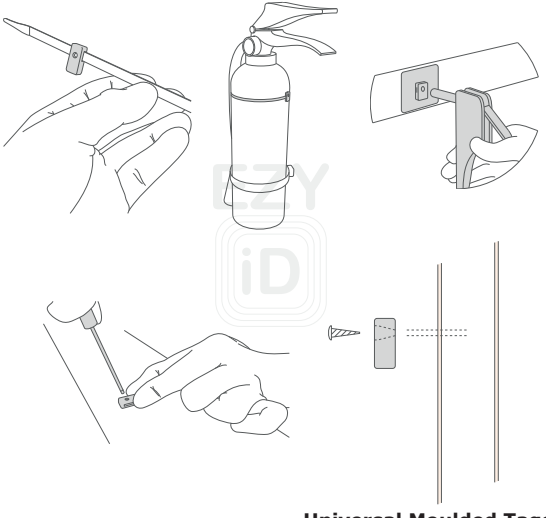
6 **EZYiD® Retrofittable Application**



Stickers

Stickers:
Stickers are 25mm x 25mm (1”x1”), with a low profile of <1mm and contain a special flat RFID tag.
Stickers are supplied with a self-adhesive backing and can be applied to a range of non-metal assets.

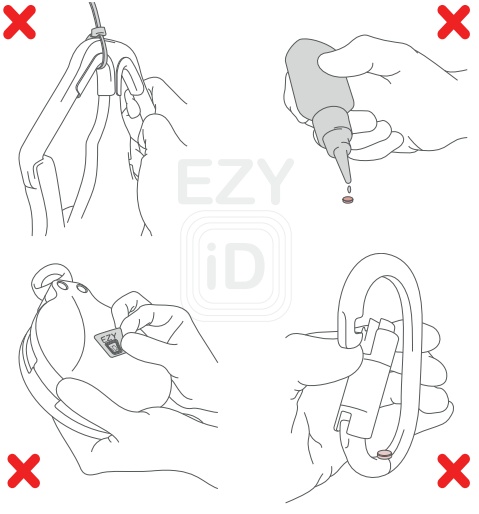
6 **EZYiD® Retrofittable Application**



Universal Moulded Tags

Universal Moulded Tags:
Universal Moulded Tags are 19mm x 10mm x 5mm (3/4” x 25/64” x 13/64”) and can be fitted to assets by using a cable tie, nail, screw, pop-rivet, or glue. The Universal Moulded Tags can be attached to any asset.

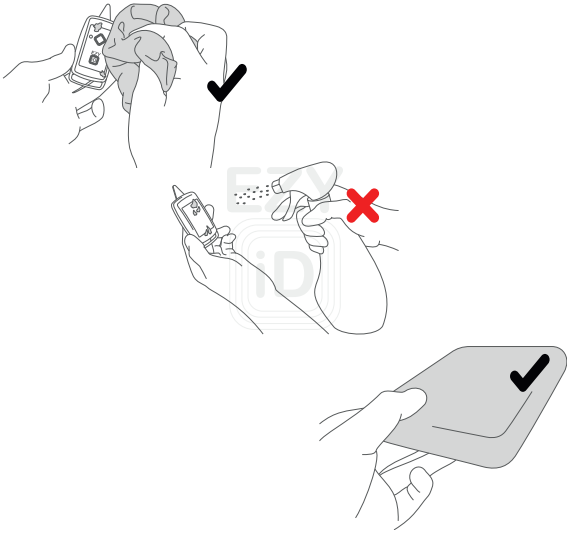
6 **Considerations**



Considerations when choosing tag type and fitting locations:
All Tags, Cable Ties, Stickers and Universal Moulded Tags should be applied to an area of the asset where they will not interfere with the function of the asset. Care should also be taken to position the tag away from the high-wear areas of the asset, in order to best defend the tags from abrasion/wear, which may cause the tag to become detached.

All Tags, Cable Ties, Stickers and Universal Moulded Tags are passive (passive components are electronic components that do not require a source of energy to perform their intended functions).

7 **Cleaning, Storage & Maintenance**



The EZYiD Reader should be cleaned using a dampened cloth. A mild, diluted detergent may be added to the water in which the cloth is dampened, but do **NOT** directly apply detergents on to the product. Do **NOT** immerse the device in water/liquid.

The EZYiD Reader should be handled with care and when not in use, should be stored in the protective case (as supplied with the device) and the case placed in a cool, dry place, which is free from water, heat, chemicals and other environmental conditions that could possibly cause damage to the Reader. Damage to the Reader could result in a lack of integrity in operating functions.

CAUTION: The EZYiD Reader case provided with product is designed to provide some protection to the Reader, but care should still be taken when transporting the Reader in this case. The case is not watertight, nor airtight and is not designed to withstand extreme weights or pressures. It is the responsibility of the user and owner of the reader to care for it in an appropriate manner as to avoid any damage that could result in malfunctioning of the Reader.

The EZYiD Reader is a non-maintenance device and there are no serviceable parts.

8: System Conformity:
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.

RoHS Conformity
BlueBerry has been realized using materials and constructive processes conforming to the limits imposed by the directive 2003/108/CE (RoHS) concerning the use of dangerous substances in electronic products.

9: Technical Specifications:
EZYiD UHF Reader:
Operating System Compatibility: iOS, Android, RIM, Windows Mobile/ Phone, Windows, macOS, Linux

USB interface – Bluetooth 2.1 + EDR
4mm Antenna is suitable for EZYiD Tags, Cable Ties, Stickers, Universal Moulded Tags and embedded tags.

Frequency Options: Europe (ETSI), North America (FCC) or Australia (AMCA)

Features: Simple 1 function key for read activation, multitone beeper, 2 colour LED for device operation signalling
Reading distance: 2-3mm
Operating Temperature: -20°C to 70°C (-4°F to 158°F)

Battery Information:
Li-Poly Battery 3.7Vdc 300mAh, USB 5Vdc re-chargeable (cable supplied). Battery life up to 10,000 readings, per full charge. Can be used and re-charged simultaneously.
Dimensions: Width 44mm (1 11/16”) x Length 95mm (3 11/16”) x Thickness 18mm (3/4”). Webbing width 30mm (1”)
Weight: 30g (1oz)

Retrofit Range:
Tags: 6mmØ x 2mm deep (15/64 x 5/64”)
Cable Ties: 200mm x 5mm (7 7/8” x 13/64”)
Stickers: 25mm x 25mm (1 x 1”)
Universal Moulded Tags: 19mm x 10mm x 5mm (3/4” x 25/64” x 13/64”)
NOTE: Stickers are **NOT** suitable for use on metal items

All Tags, Cable Ties, Stickers and Universal Moulded Tags are passive (passive components are electronic components that do not require a source of energy to perform their intended functions).

10: Lifespan & Warranty:
CSP Distribution Pty. Ltd. guarantees that EZYiD products will be free from material defects caused by workmanship or production. This guarantee extends to and no more than twelve (12) months from the date of purchase.
Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.
The warranty that covers this product does not extend to damage or malfunctions caused by improper installation, use, storage or improper modifications or repairs on the product.
To claim warranty, the purchaser must notify CSP Distribution Pty. Ltd. of the material defect immediately after its discovery, or within a timeframe that would be deemed as reasonable. After notification has been made, the purchaser must not use or attempt to use the defective product until CSP Distribution Pty. Ltd. has had the opportunity to assess the product's defects and respond appropriately to the complaint. Any use of the product after notification may result in the claim becoming void.

For warranty support please contact support@ezyid.com

11: Global Service & Support
Web Support:
Basic reader FAQ can be found at www.ezyid.com. Alternatively, use our online contact portal to speak to customer support regarding any other queries you may have regarding your EZYiD Reader.

Telephone Support:
For Australian or International support, call +61 8 6146 0170 (calls are charged at standard rate)
Alternatively, please contact your nearest EZYiD reseller.

12: Disposal
Each country has specific legislation in place, relating to the responsible disposal of lithium batteries. When disposing of your EZYiD Reader, please consult your local authority for compliance advice.

13: Feedback
Your feedback is crucial to the continual improvement of our documentation and products. To provide feedback about this manual or the EZYiD Reader and/or Tags, please contact:
CSP Distribution Pty. Ltd.
Customer Service
support@ezyid.com

14: Legal Notices
CSP Distribution Pty. Ltd. declines every responsibility in relation to possible damages, losses of income or any other damage resulting from the use of this product. The content of this manual cannot be brought anywhere without the permission of the producer. The technical specifics of the product and the information brought

in the manual are subject to change without notice; for the latest information, visit www.ezyid.com

It is the responsibility of the user to read and understand these instructions prior to use. If the Reader is used in a manner contrary to the specification of the manufacturer (as defined in this manual), the protection of the equipment may be impaired. In no event will CSP Distribution Pty. Ltd. be responsible or liable for indirect or consequential damages resulting from the use or application of this Reader.

Notes

Notes

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