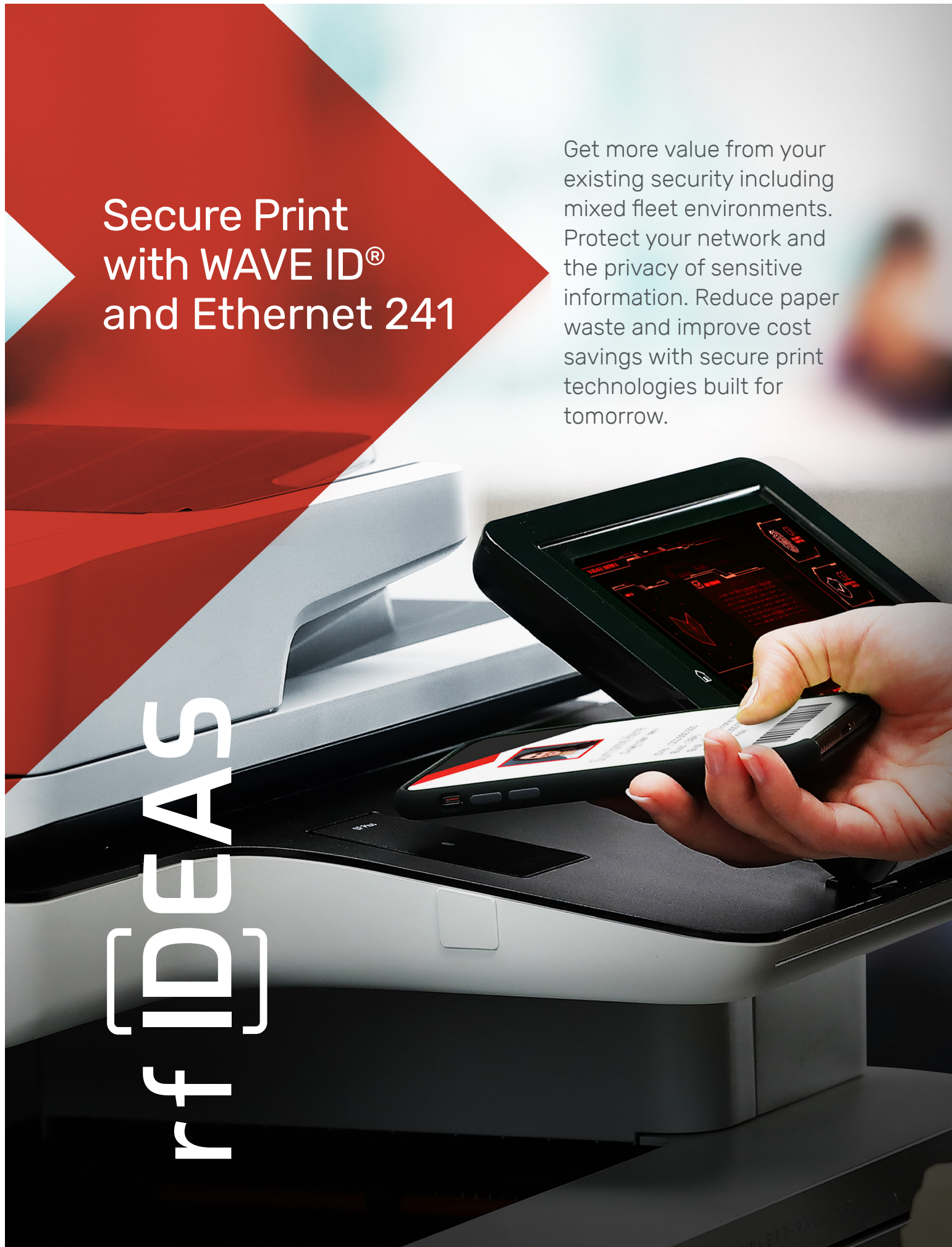


# Secure Print with WAVE ID® and Ethernet 241

Get more value from your existing security including mixed fleet environments. Protect your network and the privacy of sensitive information. Reduce paper waste and improve cost savings with secure print technologies built for tomorrow.

rf IDEAS





# Secure Print Is Good For Business.

Secure print solutions help protect your network from unauthorized access through network-connected printers and MFPs. They also help prevent misuse and waste of printed documents by releasing print jobs only when the owner is physically present at the printer. At the heart of the system is a contactless credential reader that enables secure pull print by reading an employee's ID badge or mobile credential and passing its cryptographic keys securely to your network's authentication solution. With secure print, your business can be more protected, compliant and sustainable.



## Protect Your Company, Network, Employees and the People You Serve

Printers and MFPs are often overlooked as a potential point of unauthorized digital access to your network. And even a physical print job stolen before the rightful owner can pick it up may expose:

- Protected health information
- Consumer financial information
- HR personnel files
- Intellectual property or trade secrets
- Other sensitive and proprietary information



## Maintain Regulatory Compliance

You could incur penalties for failing to protect digital and printed information under:

- GDPR, the General Data Protection Regulation in the EU
- PIPEDA and PHIPA, protecting commercial and healthcare information in Canada
- HIPAA, protecting healthcare information in the U.S.
- CJIS, the FBI's data-security protocols
- CCPA, the California Consumer Privacy Act
- Many other mandates worldwide



## Prevent Waste

Secure print can substantially reduce costs. Up to 20% of print jobs are never picked up<sup>1</sup> and wind up in the recycling bin. And when employees print personal files, they contribute to the waste of money, time and materials:

- Paper
- Toner
- Maintenance costs
- IT resources

1. Source: Dyalog.



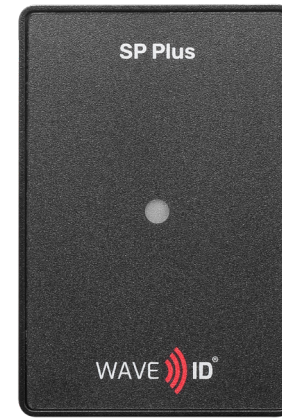




WAVE ID® Bio



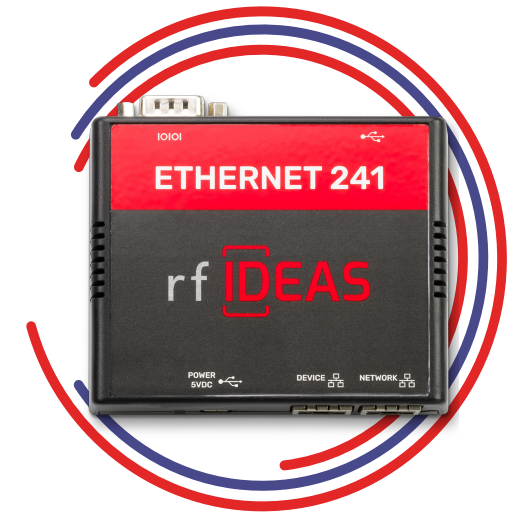
WAVE ID® Desktop Mini



WAVE ID® SP Plus ultra-slim



WAVE ID® Mobile Mini



Ethernet 241™ two-port switch

# WAVE ID® for Secure Print.

Available in single-frequency, dual-frequency, mobile, biometric, multi-function and OEM embedded models, WAVE ID® readers are designed to fit seamlessly into your workflow. They are simple to integrate with printers from your choice of OEMs and authentication software from your choice of ISVs. They work with your existing security infrastructure and the credentials your employees already use for building access. And if you don't currently have credentials in place, rf IDEAS can help you deploy cost-effective card or mobile credentials to secure all your devices and data.

A quick wave of an employee ID badge or mobile phone is all that's needed for truly secure authentication and access to print jobs at any printer. Biometric options are also available, and multi-factor authentication can be used to achieve a zero-trust security architecture.

WAVE ID® readers:

- Are easy to add to existing and new printers
- Support most printer OEMs and secure print software vendors
- Work with your existing physical-access credentials and security infrastructure, with futureproof support for tomorrow's credentials and infrastructure
- Are built to last and supported by the most trusted name in access management solutions for more than 25 years

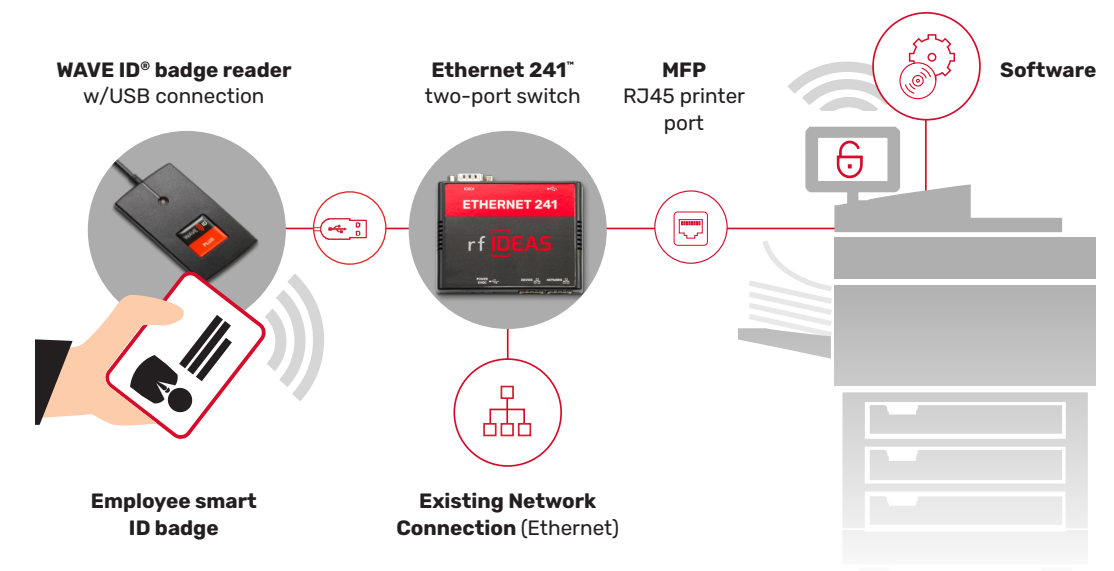
## How to secure a mixed fleet with Ethernet 241?

We understand the demands you face to secure every endpoint - including printers. When it comes to mixed fleets or older MFPs come into play, it can be a challenge to ensure that you are providing the right level of authentication protection you are looking for.

The Ethernet 241 is the two-port switch that becomes a key component in holding the print job in the queue, and redirecting / releasing this to the correct printer once the user has presented their card. This ensures that no matter the printer, you can ensure secure access, waste reduction and control the cost of printing.

## Typical Application

The user presents a card to the rf IDEAS reader located on the printer. The secure print software on the server obtains the employee ID via the Ethernet 241 and makes the decision to release a user's print job(s) to the printer.





# Product Feature: Ethernet 241™

The Ethernet 241™ was designed to allow an rf IDEAS® card reader and an application device to simultaneously communicate via an Ethernet connection, using a single network drop.

The Ethernet 241 acts as a two-port switch that provides a pass-thruEthernet port for a printer and a second Ethernet port that is built into the device. The Ethernet 241 device has two Ethernet connectors designated as the Network port and Printer port. The Ethernet 241 provides one USB port, one RS-232 DB9 port and one 5 VDC port that are used to supply power to the unit via the supplied power adapter.

## Benefits of Ethernet 241

### Security/Compliance

Sensitive documents are no longer left visible to anyone walking up to a printer. SSL (Secure Socket Layer) is available for secure transmission of card ID data.

### Day-to-Day Cost Savings

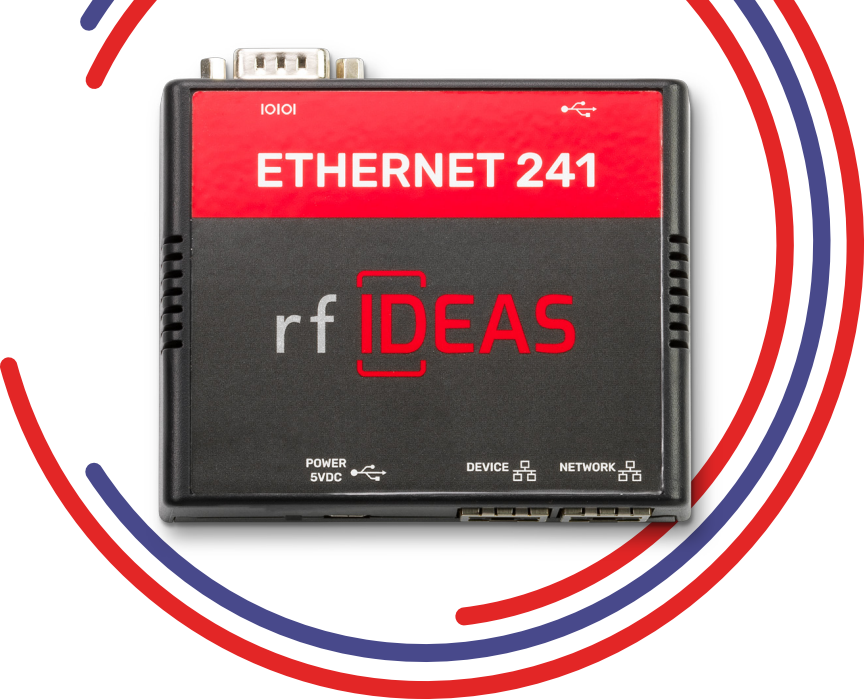
The amount of paper and toner used is reduced as the amount of print jobs go down.

### Supports Sustainability Initiatives

No longer are print jobs abandoned or forgotten at printers, wasting resources.

### Designed for Flexibility

Print jobs are no longer limited to the local printer. A print job can be printed in one location and picked up at any other location, even across country. No more carrying heavy bundles of presentations from office to office.



## Features & Specifications

| STANDARD FEATURES            |   |
|------------------------------|---|
| Network Addresses            | Two: one for Ethernet 241; one for printer  |
| Address Assignment           | DHCP or Static  |
| Reader Configurability       | Utilizing the Discovery Tool configures all Ethernet 241 devices connected to the server automatically.   |
| PHYSICAL CHARACTERISTICS     |   |
| Dimensions (inches)          | Height 3.88" (9.8552cm) x Width 3.13" (7.9502cm) x Length 1" (2.54cm)   |
| Weight                       | 3.95 ounces (112g)  |
| Power Supply                 | 5 VDC 1.0A (included)   |
| Ports                        | (2) RJ 45; (1) USB; (1) RS-232 DB9; (1) Mini USB 5VDC power supply input  |
| Mounting                     | Super velcro tabs (included)  |
| Indicators                   | LED for power condition and error faults  |
| TECHNICAL DATA               |   |
| Temperature Range            | Operating: -30°C to +65 °C (-22 °F to 150°F)  |
| Relative Humidity            | 0% to 95% relative humidity, non-condensing   |
| Network                      | 10Mbps and 100Mbps<br>THost:DHCP, Static Device:automatic, Single IP  |
| Operating Modes              | Client<br>Server Tunnel<br>SSL, proprietary data format   |
| Lan Communication Protocols  | TCP, UDP, HTTP, HTTPS, IPV4, DHCP, SSL/TSL1.2, Syslog   |
| USB                          | 12.0 USB Host Port<br>500mA<br>Supported devices: rf IDEAS USB and Serial card readers. pcSwipe Magnetic Stripe reader. Also compatible with USB numeric keypads. |
| Connectors                   | Ethernet: 2 x RJ45, 10/100BaseT. Host connector DOES NOT support PoE<br>USB: 1 x USB-A receptacle<br>Serial Reader Support  |
| LED Indicators               | 34 LEDs which use multi-color to indicate Powe/Network status, USB/Serial Status  |
| OTHER                        |   |
| Certifications               | FCC-United States; CE Mark-Europe; RCM-Australia; IC-Industry Canada  |
| Compatible Operating Systems | Windows XP®/7®/8.1®, 10® and Linux  |



# Conctactless Made Frictionless

## Secure Print Implementation Checklist

The benefits of contactless secure print are compelling when you understand what's at risk, the time and materials that you've been wasting, and how easy it is to enhance security and reduce costs with one simple solution.

- ☑ Inventory the printed document types which, if they fell into the wrong hands, could put individuals or your enterprise at risk.
- ☑ Determine which regulatory mandates apply to your business. Do you know of other enterprises in your industry that have been subject to audits and fines due to protected information leaks?
- ☑ Monitor your printers for a period of time to estimate the percentage of waste and how much it costs your company.
- ☑ Consider the risks of password-based authentication versus a contactless system that uses the simple, secure ID cards or digital credentials your employees already use for building access.
- ☑ Document your current printers, planned printer purchases, and printer usage patterns. We can recommend the ideal readers to fit your needs.
- ☑ Learn more about how easy it is to secure your printers using WAVE ID® readers for a safer, more cost-efficient and productive business.

Don't let printed documents be the weak link in your company's security or a drain on your operational costs and employee productivity. Contactless printer authentication can be frictionless. Get in touch with rf IDEAS today to begin planning the best solution for your needs.



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