



To bring overall system-integration cost down, an RFID interface is an ideal solution. It simplifies the software-integration effort, which typically represents up to 50% of the total implementation cost for a small project. Assuring shortened software-development time at a modest cost premium, Contrinex interfaces are ready to tackle the most demanding and time-critical tasks.

# INTERFACES

## RFID

### MARKET-LEADING FIELDBUS COVERAGE

#### KEY ADVANTAGES

- ✓ Widest fieldbus coverage on market
- ✓ Interfaces for connection of ContriNET to PROFIBUS, DeviceNet, EtherNet/IP, PROFINET, EtherCAT, POWERLINK and Ethernet TCP/IP
- ✓ Comprehensive accessories including T-connectors and line terminators
- ✓ TCP/IP interface in lightweight plastic, 120 × 80 × 30 mm









#### INTERFACES

- ✓ Compact, ready-to-use device
- ✓ Allows connection of ContriNET to an industrial fieldbus
- ✓ Synthetic housing in ABS
- ✓ Mounting on rail DIN EN 60715






#### USB ADAPTOR

- ✓ Synthetic ABS housing
- ✓ Serial RS-485 connection to ContriNET
- ✓ USB connection to control PC

#### PRODUCT OVERVIEW

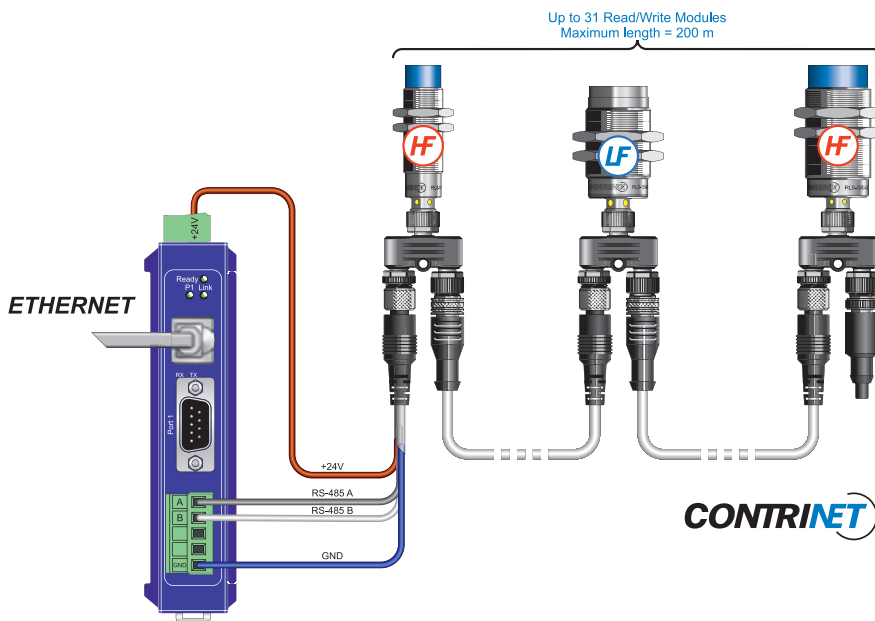
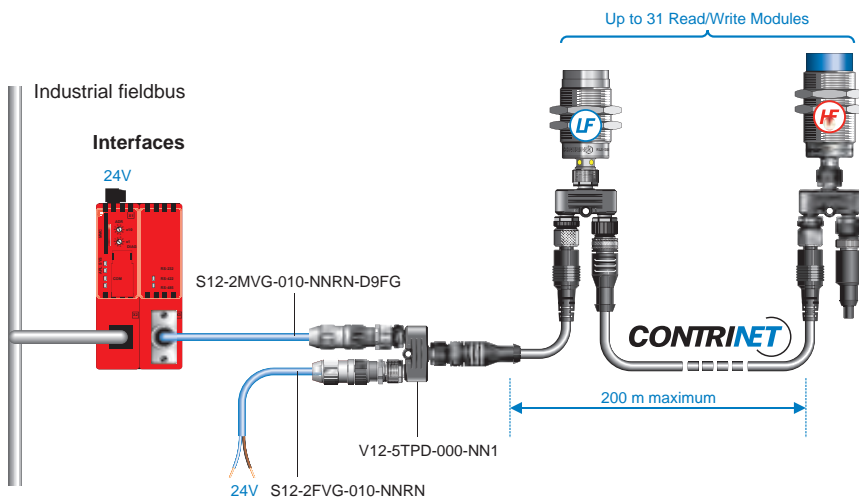
Interfaces			TCP/IP industrial interface	USB Adaptor	Cables and connectors
					

# RFID INTERFACES

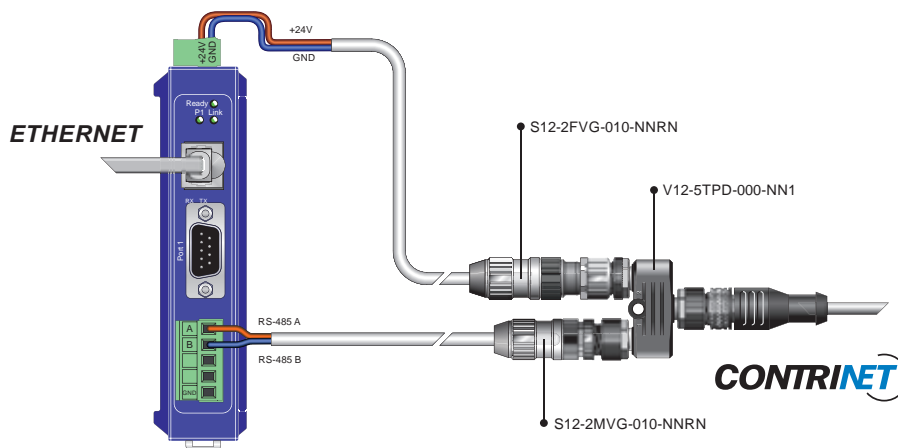
	INDUSTRIAL INTERFACES FOR PLC			INDUSTRIAL INTERFACE FOR PC	USB ADAPTOR FOR PC
					
FIELDBUS	Profibus-DP	Devicenet	Ethernet/IP / Profinet IO Ethercat / Powerlink	Ethernet TCP/IP	USB
HOUSING SIZE (mm)	100 × 52 × 64	100 × 52 × 64	100 × 52 × 64	155 × 96 × 44	67 × 66 × 28
HOUSING MATERIAL	ABS	ABS	ABS	Metal	ABS
MOUNTING	DIN rail EN 60715	DIN rail EN 60715	DIN rail EN 60715	DIN rail EN 60715	—
AMBIENT TEMPERATURE RANGE	0 ... +50°C / +32 ... +122°F	0 ... +50°C / +32 ... +122°F	0 ... +50°C / +32 ... +122°F	−10 ... +80°C / −14 ... +176°F	0 ... +50°C / +32 ... +122°F
STORAGE TEMPERATURE RANGE	0 ... +50°C / +32 ... +122°F	0 ... +50°C / +32 ... +122°F	0 ... +50°C / +32 ... +122°F	−20 ... +85°C / −14 ... +185°F	−40 ... +85°C / −40 ... +185°F
WEIGHT	150 g	150 g	150 g	635 g	67 g
POWER SUPPLY	18 ... 30 V	18 ... 30 V	18 ... 30 V	10 ... 48 V	24 V
MAX. CURRENT CONSUMPTION	130 mA	130 mA	130 mA	160 mA	625 mA
CONNECTION (RS-485 SIDE)	Connector DB9	Connector DB9	Connector DB9	Terminal block	Connector S12
PART REFERENCE	RIS-1053-120	RIS-1053-220	RIS-1053-E20	RIS-1208-400	RAS-6766-020



## CONTRINET APPLICATION WITH INTERFACES



RIS-1208-400  
MINICONNECT

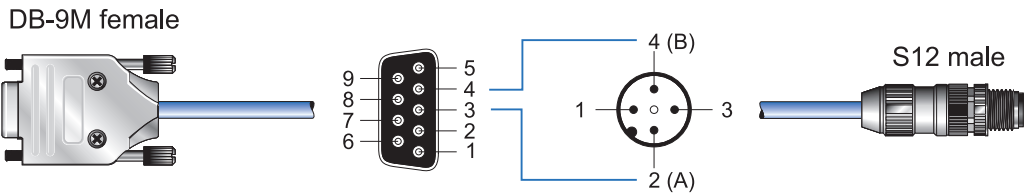


RIS-1208-400  
S12-2MVG

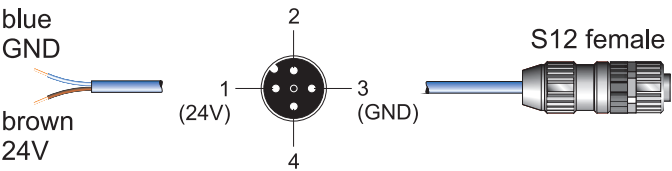


ACCESSORIES TO CONNECT INTERFACES TO CONTRINET

S12-2MVG-010-NNR2-D9FG



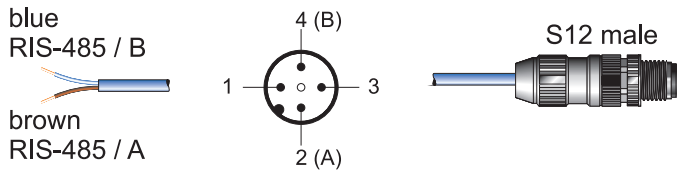
S12-2FVG-010-NNRN



V12-5TPD-000-NN1



S12-2MVG-010-NNRN



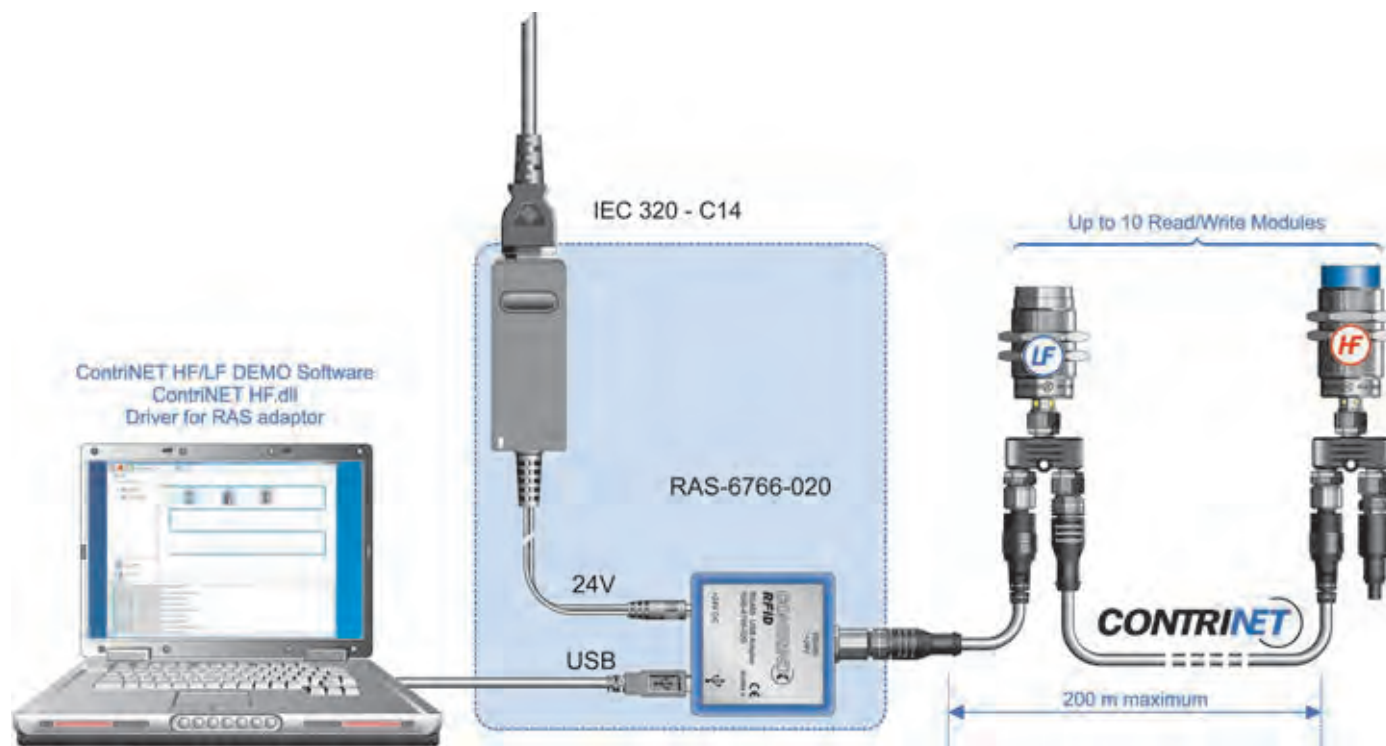
S12-5MNG-000-NNRN-120W



DATA		
S12-2MVG-010-NNRN-D9FG	DB9 – S12, RS-485 A/B cable – PVC 1 m	
S12-2FVG-010-NNRN	24V – S12, power supply cable – PVC 1 m	
S12-2MVG-010-NNRN	2-wire – S12, RS-485 A/B cable – PVC 1 m	
V12-5TPD-000-NN1	S12 T-connector	
S12-5MNG-000-NNRN-120W	S12 ContriNET terminator 120 W	



## ACCESSORIES FOR USB INTERFACE



### CONNECTION

The adaptor acts as the interface between a network of Read/Write Modules and the USB port of the control PC. The delivery package includes a USB cable.

### EXTERNAL POWER SUPPLY UNIT

An external power supply unit (24V / 15W, 625 mA) is included in the delivery package.

### DRIVERS AND SOFTWARE

Drivers compatible with the various Windows versions and software for demonstration and training (ContriNET HF/LF) can be downloaded from the RAS-6766-020 product page of the Contrinex website.



Contrinex RFID accessories make it easy for system designers to develop simple applications from scratch. RFID Starter Kits, available with either LF or HF technology, contain all the elements needed to build a basic RFID system – including RWMs, transponders, cables, connectors and power supply – in a handy carry-case. For hard-to-reach applications where it's impossible to mount a powered RWM close to a tag, passive RFID couplers extend the sensing distance without the need for any physical connection. Optionally, for LF applications, a hand-held reader with an integral RWM offers a non-contact alternative.

# ACCESSORIES

## RFID

### KEY ADVANTAGES

#### STARTER-KIT RFID LF

- ✓ Set containing all the components needed to develop a simple LF RFID application
- ✓ 2 read/write modules (RWM)
- ✓ 6 transponders
- ✓ 1 USB adaptor with power supply
- ✓ Connection cables

#### STARTER-KIT RFID HF

- ✓ Set containing all the components needed to develop a simple HF RFID application
- ✓ 2 read/write modules (RWM)
- ✓ 5 transponders
- ✓ 1 USB adaptor with power supply
- ✓ Connection cables

#### HANDHELD DEVICE

- ✓ Portable and light
- ✓ No connector
- ✓ Robust and ergonomic housing
- ✓ Simple navigation
- ✓ Integrated RFID read/write module
- ✓ Belt clip
- ✓ Integrated clock and calendar
- ✓ Dock-in/charging station included

#### RFID COUPLERS

- ✓ Metal threaded cylindrical housings
- ✓ Sensing face of PBTP (polybutylene terephthalate) or stainless steel V2A
- ✓ Insensitive to dirt
- ✓ Passive (without power supply)


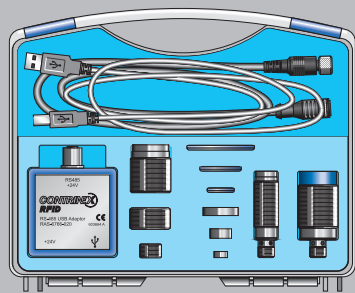

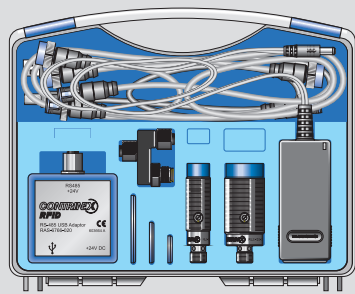


### PRODUCT OVERVIEW



Starter kits		Handheld device	RFID couplers
			



## STARTER KITS



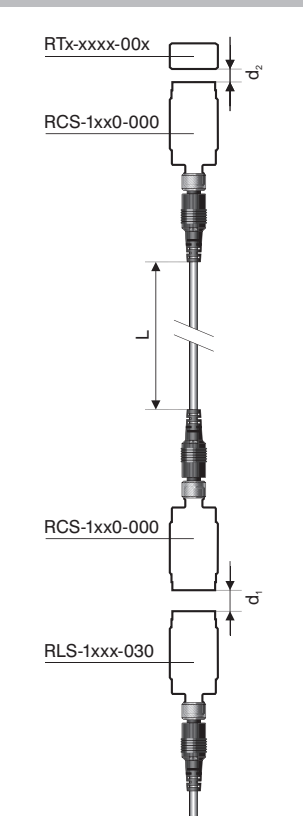
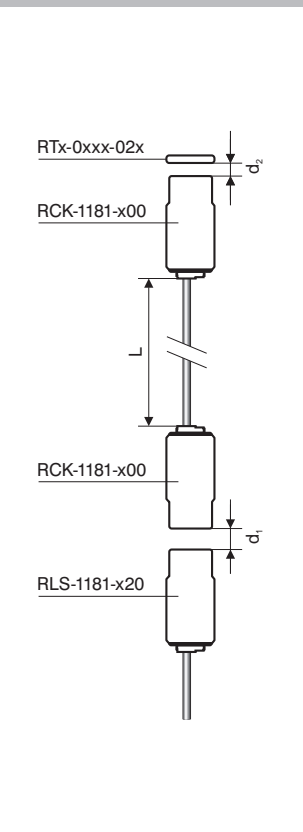
STARTER KITS	HOUSING SIZE (mm)	CONTENTS
 STARTER-KIT RFID	 255 × 205 × 60	1 USB adaptor, 2 RWMs, 6 tags, 2 T-connectors, 1 power supply, 1 USB cable, 2 connecting cables
 STARTER-KIT RFID	 255 × 205 × 60	1 USB adaptor, 2 RWMs, 5 tags, 2 T-connectors, 1 power supply, 1 USB cable, 2 connecting cables

## HANDHELD DEVICE

 HANDHELD DEVICE	HOUSING SIZE (mm)	PART REFERENCE	
	155 × 75 × 49 (with docking station)	RPA-0111-000	Handheld read/write device with docking station with EU adapter
		RPA-0110-000	Handheld read/write device without docking station
		RPA-0101-000	Docking station with EU adapter
		RPA-0112-000	Handheld read/write device with docking station with US adapter
		RPA-0102-000	Docking station with US adapter



## RFID COUPLERS

DATA		
		
HOUSING SIZE	M18/M30	M18
HOUSING MATERIAL	Stainless steel V2A/Chrome-plated brass	Chrome-plated brass
SENSING FACE MATERIAL	Stainless steel V2A/PBTP	PBTP
MOUNTING	Non-embeddable	Non-embeddable
AMBIENT TEMPERATURE RANGE	-25 ... +80°C / -13 ... +176°F	-25 ... +80°C / -13 ... +176°F
STORAGE TEMPERATURE RANGE	-25 ... +80°C / -13 ... +176°F	-25 ... +80°C / -13 ... +176°F
CONNECTION TYPE	Connector S12	PVC cable, 2 m
DEGREE OF PROTECTION	IP68 & IP69K/IP67	IP67
WEIGHT (WITH NUTS)	51 g/120 g	80 g
PART REFERENCE	RCS-1180-000 RCS-1181-000 RCS-1300-000 RCS-1301-000	RCK-1181-020

# RFID REFERENCE KEY

## NEW RFID DESIGNATION

### RLH-C44PA-NIS

#### RFID PRODUCTS

R

#### RFID SYSTEM TYPE

L

Adapter	A
Data coupler	C
Interface	I
Reader	L
Portable reader	P
Transponder	T

#### RFID TECHNOLOGY

S

Conident LF (31.25 kHz)	L
Conident HF (13.56 MHz)	H

#### HOUSING TYPE

Smooth sleeve	D
Threaded cylindrical	M
High-pressure resistant	P
Squared	C
Rectangular	R

#### HOUSING SIZE

<b>Cylindrical devices</b>	
M18	18
M30	30
<b>Cubic devices</b>	
Cubic 4# mm × 4# mm	44

#### SENSING FACE MATERIAL

Stainless steel V2A	M
PBTP	P
Stainless steel V4A	L
Epoxy	O
PPA	Q
PPS	R
LCP	S

#### CONNECTION / PROGRAMMATION

Blank Programming	0
Pre-programmed	1
Cable connection	K
Plug connection	S
Terminal block connection	T
Rotating ring connection	V

#### COMMUNICATION COMPATIBILITY

EM4056	A
ICODE SLI-S	B
ICODE SLI-X	C
FRAM MBR89R118C	D
ICODE SLI	E
Serial Output	S
Logic Output	L
USB connector	U
IO-Link Output	I
RS-485	0
PROFIBUS	1
DeviceNet	2
Ethernet/IP	3
TCP/IP	4
PROFINET	5
EtherCAT	6
POWERLINK	8

#### EMBEDDABILITY

Embeddable	E
Non-Embeddable	N

#### SERIAL PERFORMANCE

Standard version (+80°C)	A
High temperature (+120°C)	H
Very high temperature (+180°C)	V
Ultra high temperature (+250°C)	U



## TRANSPONDERS

## RTM-0160-000

## RFID PRODUCT

R

## TRANSPONDER

T

## SERIES

All metal

F

All metal, laser welded

L

Metal

M

Plastic

P

## TYPE

Smooth sleeve

0

Non-embedabble

1

Embeddable

2

## SIZE

Diameter [mm]

XX

## TEMPERATURE

Standard up to +80°C

0

High up to +125°C

1

Ultra high up to +250°C

2

## TECHNOLOGY

Low Frequency

0

High Frequency ICode SLI-S  
ISO 15693

2

## PROGRAMMING

Blank

0

Preprogrammed

1

## MATERIAL

Epoxy

0

PBTP

1

LCP

2

PPS

3



INTERFACES

RIS-1053-120

RFID PRODUCTS R

MODULE

Adaptor	A
Interface	I

CONNECTOR S

SIZE

RAS	
66 × 67 mm	6766
RIS	
100 × 52 × 64 mm	105

CONNECTIVITY

Fieldbus / ContriNet	3
----------------------	---

COMMAND SET

Standard	0
----------	---

PROTOCOL

ContriNet	2
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FIELDBUS

RAS	
USB	0
RIS	
PROFIBUS-DP	1
DeviceNet	2
EtherNet/IP	3
PROFINet IO	5
EtherCAT	6
POWERLINK	8
TCP/IP	400



## READ/WRITE MODULES

## RLS-1181-030

## RFID PRODUCTS

R

## READ/WRITE MODULE

L

## CONNECTIONS

S12 connector, 4-pins

S

## TYPE

Smooth sleeve

0

Non-embedable

1

Embeddable

2

## SIZE

M18

18

M30

30

## TEMPERATURE

Standard up to +80°C

0

High up to +125°C

1

## TECHNOLOGY

Conident HF

2

Conident LF

3

## NETWORK

ContriNet

0

USB

2

IO-Link

3

## MATERIAL

Stainless steel V2A

0

PBTP/Chrome-plated brass

1

Stainless steel V4A

2

PBTP/Stainless steel V2A

3