MINRIX LLC.

PRODUCT & SERVICES CATALOGUE · 2026

Materials, RFID & IoT, and the services that connect them

Industrial raw materials, RFID labels and tags, connected cargo-security devices and expert services — from one partner in Dubai, delivered worldwide.







www.minrix.com

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About MinRix

MinRix LLC was founded in 2023 in Dubai. We supply industrial raw materials, make shipments visible with RFID and IoT, and support decisions with market analysis, consulting and training — one partner from sourcing to delivery.

5	11	15+ yrs	ISO 9001:2015
core services	countries served	experience in our team	certified quality management

1 · Choose

Find the material, tag, device or service and note its MinRix code.

2 · Ask

Use any “Request a quote” link or e-mail sales@minrix.com.

3 · Firm quote

Every inquiry answered within 18 business hours.

Typical values from the MinRix technical data sheets. Binding specifications, packing and inspection are confirmed in the MinRix quotation and contract. No prices are shown in this catalogue — please request a quote.

01

Raw materials

Metals, minerals and energy materials with a datasheet per grade, independent inspection and a firm quote within 18 business hours.



RAW MATERIALS · OVERVIEW

The range at a glance

Material	Category	MinRix codes	Origin	Min. order	Status
Aluminium Ingots	Metals	MRX-AL-A7 · MRX-AL-A8 · MRX-AL-A9	China	50 MT	AVAILABLE
Magnesium Ingots	Metals	MRX-MG-9995 · MRX-MG-9998 · MRX-MG-9999	China	20 MT	AVAILABLE
Tin Ingots	Metals	MRX-SN-9990 · MRX-SN-9995 · MRX-SN-9999	China	10 MT	AVAILABLE
Lead Ingots	Metals	MRX-PB-99994	China	25 MT	AVAILABLE
Copper Wire Millberry	Metals	MRX-CU-BB	China · Turkey	15 MT	COMING SOON
Rock Phosphate	Minerals	MRX-RP-56 · MRX-RP-61 · MRX-RP-63 · MRX-RP-66 · MRX-RP-72	Egypt	25,000 MT	AVAILABLE
Silica Sand	Minerals	MRX-SI-9933 · MRX-SI-9989	Indonesia · Egypt	10,000 MT	AVAILABLE
Steam Coal	Energy	MRX-SC-5400 · MRX-SC-5800 · MRX-SC-6400	Indonesia	50,000 MT	AVAILABLE
Sulphur	Chemicals	MRX-S-9995	Kazakhstan	5,000 MT	COMING SOON
MAP 12-61-0	Chemicals	MRX-MAP-12610	Saudi Arabia	5,000 MT	COMING SOON

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METALS · AVAILABLE

Aluminium Ingots

Primary (virgin) aluminium — not secondary, not recycled, non-alloy. Standard and T-ingot forms for smelting, casting and alloy production.

Smelting | Casting | Alloy production

Request a quote ↗

ORIGIN	MINIMUM ORDER	STANDARD	INSPECTION
China	**50 MT**	**ISO 209**	**SGS or equivalent, before loading**

MinRix code	Grade	Al min. %
MRX-AL-A7	A7	99.7
MRX-AL-A8	A8	99.8
MRX-AL-A9	A9	99.9

Packing

Ingot weight	22.7 ± 1.5 kg
Ingot size	740 × 170 × 114 mm
Per bundle	≈ 44 ingots
Bundle weight	≈ 975–1,000 kg
Strapping	Steel or PET, 2 cross + 3 parallel

Maximum content per element, %

Parameter	A7	A8	A9
Iron (Fe)	0.25	0.12	0.07
Silicon (Si)	0.20	0.08	0.05
Vanadium (V)	0.05	0.004	0.003
Zinc (Zn)	0.04	0.03	0.02
Copper (Cu)	0.04	0.005	0.005
Titanium (Ti)	0.03	0.005	0.003
Manganese (Mn)	0.03	0.006	0.003
Magnesium (Mg)	0.03	0.02	0.01

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METALS · AVAILABLE

Magnesium Ingots

Primary (virgin) magnesium — not secondary, not recycled, non-alloy. Square, cylindrical or bar-shaped ingots for aerospace, automotive and alloy production.

Aerospace | Automotive | Alloy production

Request a quote ↗

ORIGIN	MINIMUM ORDER	STANDARD	INSPECTION
China	**20 MT**	**ISO 8287**	**SGS or equivalent, before loading**

MinRix code	Grade	Mg min. %
MRX-MG-9995	99.95 %	99.95
MRX-MG-9998	99.98 %	99.98
MRX-MG-9999	99.99 %	99.99

Packing

Ingot weight	7.5 ± 0.5 kg
Shape	Square, cylindrical or bar
Per bundle	≈ 130 ingots
Bundle weight	≈ 1,000 kg
Strapping	Steel or PET

Maximum content per element, %

Parameter	99.95 %	99.98 %	99.99 %
Aluminium (Al)	0.008	0.004	0.002
Silicon (Si)	0.006	0.003	0.002
Manganese (Mn)	0.006	0.002	0.002
Tin (Sn)	0.005	0.004	0.002
Lead (Pb)	0.005	0.001	0.001
Zinc (Zn)	0.005	0.004	0.003
Iron (Fe)	0.003	0.002	0.002
Copper (Cu)	0.002	0.004	0.002
Nickel (Ni)	0.001	0.004	0.0003

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METALS · AVAILABLE

Tin Ingots

Refined primary tin — not secondary, not recycled, non-alloy — for solder, tinplate and chemical applications.

Solder | Tinplate | Chemicals

Request a quote ↗

ORIGIN	MINIMUM ORDER	STANDARD	INSPECTION
China	**10 MT**	**ASTM B339**	**SGS or equivalent, before loading**

MinRix code	Grade	Sn min. %
MRX-SN-9990	99.90 %	99.90
MRX-SN-9995	99.95 %	99.95
MRX-SN-9999	99.99 %	99.99

Packing

Ingot weight	≈ 25 kg
Shape	Square, cylindrical or bar
Per bundle	≈ 40 ingots
Bundle weight	≈ 1,000 kg
Strapping	Steel or PET

Maximum content per element, %

Parameter	99.90 %	99.95 %	99.99 %
Lead (Pb)	0.032	0.020	0.0035
Antimony (Sb)	0.020	0.014	0.0015
Bismuth (Bi)	0.015	0.006	0.0025
Arsenic (As)	0.008	0.003	0.0005
Iron (Fe)	0.007	0.004	0.002
Nickel + cobalt	0.005	0.005	0.0006
Zinc (Zn)	0.001	0.0008	0.0003
Aluminium (Al)	0.001	0.0008	0.0005
Cadmium (Cd)	0.0008	0.0005	0.0003

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METALS · AVAILABLE

Lead Ingots

Refined primary lead, grade Pb99.994 — not secondary, not recycled, non-alloy. For lead-acid batteries, cable sheathing, radiation shielding and alloys.

Batteries | Cable sheathing | Radiation shielding | Alloys

Request a quote ↗

ORIGIN	MINIMUM ORDER	STANDARD	INSPECTION
China	**25 MT**	**GB/T 469-2013**	**SGS or equivalent, before loading**

MinRix code	Grade	Pb min. %
MRX-PB-99994	Pb99.994	99.994

Packing

Bundle weight	≈ 960 kg
Form	Lead ingots, strapped in bundles

GB/T 469-2013 limits, %

Parameter	Pb99.994
Lead (Pb), min.	99.994
Silver (Ag), max.	0.0008
Copper (Cu), max.	0.001
Antimony (Sb), max.	0.0008
Tin (Sn), max.	0.0005
Arsenic (As), max.	0.0005
Bismuth (Bi), max.	0.004
Iron (Fe), max.	0.0005
Nickel (Ni), max.	0.0002
Cadmium (Cd), max.	0.0002
Zinc (Zn), max.	0.0004
Total impurities, max.	0.006

Typical lot analysis, %

Parameter	Pb99.994
Lead (Pb)	99.9973
Silver (Ag)	0.00021
Copper (Cu)	0.00035
Antimony (Sb)	0.0002
Tin (Sn)	0.00014
Arsenic (As)	0.00012
Bismuth (Bi)	0.00107
Iron (Fe)	0.0002
Nickel (Ni)	0.0001
Cadmium (Cd)	0.0001
Zinc (Zn)	0.00021
Total impurities	0.0027

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MINERALS · AVAILABLE

Rock Phosphate

Natural Egyptian phosphate ore for fertiliser and phosphoric-acid production. Free flowing.

Fertiliser | Phosphoric acid

Request a quote ↗

ORIGIN	MINIMUM ORDER	STANDARD	INSPECTION
Egypt	**25,000 MT**	**Scott's Standard Methods**	**As agreed in the contract**

MinRix code	Grade	P_2O_5 %
MRX-RP-56	BPL 56 %	26.23
MRX-RP-61	BPL 61 %	28.51
MRX-RP-63	BPL 63 %	29.12
MRX-RP-66	BPL 66 %	30.45
MRX-RP-72	BPL 72 %	32.97

Sieve analysis and physical properties

Parameter	BPL 56 %	BPL 61 %	BPL 63 %	BPL 66 %	BPL 72 %
Mesh 4, %	1.5	1.2	1.5	1.5	1.6
Mesh 4–100, %	77.6	78.8	77.6	77.6	76.0
Mesh 100–200, %	18.5	17.8	18.5	18.5	19.5
Mesh 200–270, %	1.4	1.3	1.4	1.4	1.6
Mesh > 270, %	1.0	0.9	1.0	1.0	1.3
Moisture, %	4.68	5.00	3.96	4.14	—
Organic matter, %	1.48	0.81	1.09	0.53	1.97
Solubility 6 % HCl, %	58	—	67	71	—
Solubility 2 % citric acid, %	32	35.41	32	44.21	62
Solubility 2 % formic acid, %	45	—	45	82	93

Typical chemical analysis, %

Parameter	BPL 56 %	BPL 61 %	BPL 63 %	BPL 66 %	BPL 72 %
P_2O_5	26.23	28.51	29.12	30.45	32.97
CaO	41.17	45.46	46.73	47.60	49.12
SiO_2	15.24	9.39	7.00	7.00	3.85
$CaCO_3$	16.00	17.25	13.65	16.63	15.60
CO_2	7.04	—	5.02	7.33	2.78
F	2.46	2.81	2.76	3.00	3.05
SO_3	1.59	2.55	1.34	1.44	1.22
Fe_2O_3	1.41	1.20	0.91	0.85	0.82
Al_2O_3	0.82	0.41	0.68	0.37	0.53
MgO	0.87	0.23	0.87	0.19	0.42
K_2O	0.60	0.06	0.58	0.04	0.21
Na_2O	0.50	0.48	0.50	0.43	0.56

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MINERALS · AVAILABLE

Silica Sand

High-purity silica sand for glass, foundry and industrial applications. Low iron in the 99.89 % grade suits clear glass.

Clear glass | Container glass | Foundry

Request a quote ↗

ORIGIN	MINIMUM ORDER	STANDARD	INSPECTION
Indonesia · Egypt	**10,000 MT**	**ICP · sampling ASTM C146**	**SUCOFINDO**

MinRix code	Grade	SiO_2 %
MRX-SI-9933	SiO_2 99.33 %	99.33
MRX-SI-9989	SiO_2 99.89 %	99.89

Physical data

Parameter	SiO_2 99.33 %	SiO_2 99.89 %
Moisture, %	5.92	4.82
Loss on ignition, %	0.10	0.02

Oxide impurities by ICP, %

Parameter	SiO_2 99.33 %	SiO_2 99.89 %
Al_2O_3	0.267	0.005
MgO	0.171	0.001
CaO	0.049	0.003
TiO_2	0.017	0.001
Fe_2O_3	0.016	0.004
Na_2O	0.004	0.002
K_2O	< 0.001	0.001
MnO_2	< 0.001	< 0.001
Cr_2O_3	< 0.001	< 0.001

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ENERGY · AVAILABLE

Steam Coal

Indonesian thermal coal for power generation and industrial boilers, analysed by independent surveyors.

Power generation | Industrial boilers

Request a quote ↗

ORIGIN	MINIMUM ORDER	STANDARD	INSPECTION
Indonesia	**50,000 MT**	**ASTM D5865 · D3174 · D4239**	**SUCOFINDO · Geoservices · Triyasa Pirsa Utama**

MinRix code	Grade	GCV ARB kcal/kg
MRX-SC-5400	GAR 5400	5,405
MRX-SC-5800	GAR 5800	5,835
MRX-SC-6400	GAR 6400	6,442

Coal analysis

Parameter	GAR 5400	GAR 5800	GAR 6400
GCV, kcal/kg (ARB)	5405	5835	6442
GCV, kcal/kg (ADB)	6187	5973	6543
Total moisture, % (ARB)	23.57	15.50	11.84
Inherent moisture, % (ADB)	11.86	13.50	10.46
Ash, % (ADB)	10.00	5.10	2.78
Volatile matter, % (ADB)	40.35	38.90	42.76
Fixed carbon, % (ADB)	37.79	42.50	44.00
Sulphur, % (ADB)	0.94	0.55	0.71
Sizing 0–50 mm, %	77.50	—	91.93
HGI	—	39	—

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CHEMICALS · COMING SOON

Sulphur

Bright yellow granular sulphur, 99.95 % purity, for fertiliser, sulphuric-acid and chemical production.

Fertiliser | Sulphuric acid | Chemicals

Request a quote ↗

ORIGIN	MINIMUM ORDER	STANDARD	INSPECTION
Kazakhstan	**5,000 MT**	**Producer specification**	**SGS or equivalent, before loading**

MinRix code	Grade	S min. %
MRX-S-9995	Granular 99.95 %	99.95

Specification, wt %

Parameter	Granular 99.95 %
Purity (S), min.	99.95
Ash, max.	0.05
Moisture, max.	0.5
Acidity as H_2SO_4, max.	0.02
Carbon, max.	0.03
As, Se, Te & Pb	Nil
Mechanical impurities	Nil — not permitted

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RAW MATERIALS

Coming soon

Register your interest now — we share specifications and the first shipment dates as soon as they are confirmed.



MRX-CU-BB

Copper Wire Millberry

Bare bright copper wire — #1 grade, minimum 99.99 % copper, uncoated and unalloyed, ready for smelting.

Origin	China · Turkey
Min. order	15 MT
Cu min. %	99.99

Request a quote ↗



MRX-MAP-12610

MAP 12-61-0

Water-soluble monoammonium phosphate, 12 % N and 61 % P_2O_5, for agriculture and industrial blends.

Origin	Saudi Arabia
Min. order	5,000 MT
P_2O_5 %	61

Request a quote ↗

02

RFID & IoT

IntelliSticker labels, industrial tags and readers — plus electronic locks, seals and sensors on one monitoring platform.



RFID

IntelliSticker labels

Passive UHF and NFC labels, every one made to order in any size and shape, with your logo, barcode, QR code and encoding.



MRX-IS-STD

IntelliSticker Label

Adhesive label for pallets, cartons and plastic.

Air interface	UHF · EPC Gen2v2
Memory	EPC 128 · user 512 bit
Read range	Up to 14 m
Size	50 × 30 mm · any size
Rating	IP54 · −20 to +70 °C



MRX-IS-SEC

IntelliSticker Secure

Tamper-evident: VOID, destructible face, hologram.

Air interface	UHF · EPC Gen2v2
Memory	EPC 128 · user 512 · TID
Read range	Up to 14 m
Size	50 × 30 mm · any size
Use	Anti-counterfeit, sealing



MRX-IS-HANG

IntelliSticker Hang-tag

Tie-on tag for garments, sacks and bundles.

Air interface	UHF · EPC Gen2v2
Memory	EPC 128 · user 512 bit
Read range	Up to 14 m
Size	80 × 20 mm · any size
Fixing	Tie or loop



MRX-IS-METAL

IntelliSticker On-Metal

Reads directly on steel assets and racks.

Air interface	UHF · EPC Gen2v2
Size	60 × 40 mm · any size
Compact	30 × 15 × 1.2 mm, UCODE 9
Read range	Up to 14 m (10 m compact)
Temperature	Compact −40 to +85 °C



MRX-IS-RUG

IntelliSticker Ruggedized

Robust tag for crates and returnable assets.

Air interface	UHF · EPC Gen2v2
Memory	EPC 128 · user 512 bit
Read range	Up to 14 m
Size	100 × 25 mm · any size
Rating	IP54 · −20 to +70 °C



MRX-IS-NFC

IntelliSticker NFC

Smartphone tap: web link or authenticity check.

Air interface	HF 13.56 MHz
Protocol	ISO 14443-A · ISO 15693
Read range	A few cm
Size	Ø 25 mm · any size
Options	Password · on-metal



MRX-IS-WIN

IntelliSticker Windshield

Vehicle access, parking, tolling and fleets.

Air interface	UHF · EPC Gen2
Memory	TID 64 · EPC 96 · user 512
Read range	Gate / lane reader
Size	98 × 25 × 0.25 mm
Option	Tamper-evident



MRX-IS-JWL

IntelliSticker Jewellery Tag

Small tag for trays, rings and watches.

Air interface	UHF · EPC Gen2
Read range	Short range
Size	Compact · any size
Fixing	Loop or adhesive
Print	Price, logo, barcode



MRX-IS-TUBE

IntelliSticker Test-tube

Wrap-around label for tubes and vials.

Air interface	UHF or NFC
Read range	Short range
Size	Sized to the tube
Version	Cold storage
Print	Barcode and text



MRX-IS-EMB

IntelliSticker Embedded Tag

Tag in a metal housing for tools.

Air interface	UHF · EPC Gen2
Read range	Short to medium
Fixing	Screw, rivet, adhesive
Durability	Survives washing
Size	Custom housings

Security options for all versions: VOID pattern, destructible face stock, hologram.

RFID

Smart labels

Labels that light up when called or log the temperature along the cold chain.



LUMID-UL1

LUMID LED UHF Label

LED lights up when the reader calls the tag.

Air interface	UHF · ISO 18000-6C
Memory	EPC/TID 96 · user 1312 bit
Read range	Up to 1.5 m
Size	75 × 25 × 0.26 mm
Temperature	−35 to +85 °C



MR100

Temperature Tag MR100

NFC + UHF logger for the cold chain.

Air interface	NFC + UHF
Memory	20,000 readings
Accuracy	±0.5 °C (−20 to +35 °C)
Interval	From 1 s
Sizes	125×90 · 85.5×54 · 55×35

RFID

Label constructions

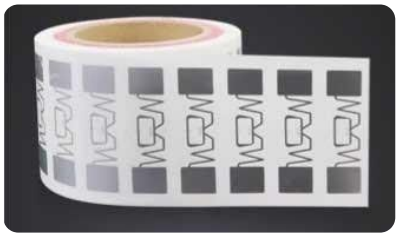
Every label starts as an inlay — chip and antenna on PET — and is converted to the construction your process needs.



MRX-INL-DRY

Dry inlay

Chip and antenna on PET — no adhesive, no print. For your own converting or embedding.



MRX-INL-WET

Wet inlay

Dry inlay with hot-melt adhesive — sticks to the product, not printable.



MRX-INL-PAP

Paper label

Wet inlay with coated paper or PET face — sticks and prints on any label printer.

HF 13.56 MHz (ISO 14443 / 15693) or UHF 860–960 MHz (EPC Gen2) · ≥ 100,000 write cycles · ≥ 10 years data retention.

RFID

Special labels

Labels for jewellery, garments, books and metal.



MRX-SL-JWL

Jewellery label

Waterproof PET label, adhesive or hang.

Chip	Impinj Monza R6 / R6-P or UCODE 9xe
Temperature	−20 to +85 °C
Use	Jewellery, glasses, luggage



MRX-SL-CLO

Clothing label

Coated paper, printed and punched.

Chip	UCODE 8 · EPC Gen2
Temperature	−40 to +85 °C
Use	Retail and apparel



MRX-SL-BOOK

Book label

Paper, PET, PP or thermal face.

Air interface	HF 13.56 MHz · ISO 15693
Temperature	−40 to +85 °C
Use	Libraries and archives



MRX-SL-FOM

Flexible on-metal label

Printable label that reads on metal.

Air interface	HF or UHF
Face	Coated paper, PET, PP, thermal or PVC
Temperature	−40 to +85 °C

RFID

Small PCB on-metal tags

Tiny UHF tags for tools, instruments and small metal parts.

	Code	Material & size	Chip (EPC/user bits)	Read range	Temperature	Fixing
	MRX-PCB-0505	PCB · Ø 5 × 3 / Ø 5 × 2 mm	UCODE 8 (128/0)	0.25 m	−25 to +75 °C	Adhesive
	MRX-PCB-0904	PCB · 9.3 × 4.3 × 1.6 mm	UCODE 7M (128/32)	0.25 m	−25 to +75 °C	Adhesive
	MRX-PCB-1005	PCB · 10 × 5 × 3 mm	UCODE 8 (128/0)	0.45 m	−25 to +75 °C	Adhesive
	MRX-PCB-1010	PCB · Ø 10 × 2 / Ø 10 × 3 mm	Monza 4QT (128/512) · UCODE 8	0.45 m	−25 to +75 °C	Adhesive

	Code	Material & size	Chip (EPC/user bits)	Read range	Temperature	Fixing
	MRX-PCB-1207	PCB · 12 × 7 × 3 mm	UCODE 8 · Monza 4QT	0.70 m	−25 to +75 °C	Adhesive
	MRX-PCB-1309	PCB · 13 × 9 × 3 mm	UCODE 8 · Monza 4QT	0.85 m	−25 to +75 °C	Adhesive
	MRX-PCB-1809	PCB · 18 × 9 × 3 / 18 × 9 × 2 mm	UCODE 8 (128/0)	0.60 m	−25 to +75 °C	Adhesive
	MRX-PCB-2208	PCB · 22 × 8 × 2 mm	UCODE 7M (128/32) · UCODE 8	1.0 m	−25 to +75 °C	Adhesive
	MRX-PCB-2309	PCB · 23 × 9 × 3 mm	UCODE 8 (128/0)	1.3 m	−25 to +75 °C	Adhesive

UHF 902–928 MHz shown; ETSI 865–868 MHz versions available. Read range depends on reader, antenna and surface.

RFID

Ceramic on-metal tags

Compact, very stable ceramic tags — up to 5 m on metal.

	Code	Material & size	Chip (EPC/user bits)	Read range	Temperature	Fixing
	MRX-CER-1010	Ceramic · Ø 10 × 1.8 mm	Higgs 3 (96/512) · UCODE 8	1.3 m	−25 to +75 °C	Adhesive
	MRX-CER-1309	Ceramic · 13 × 9 × 3 mm	Higgs 3 · UCODE 8	1.7 m	−25 to +75 °C	Adhesive
	MRX-CER-1616	Ceramic · Ø 16 × 2 mm	Higgs 3 · UCODE 8	1.7 m	−25 to +75 °C	Adhesive
	MRX-CER-1909	Ceramic · 19 × 9 × 3 mm	Higgs 3 · UCODE 8	1.7 m	−25 to +75 °C	Adhesive

	Code	Material & size	Chip (EPC/user bits)	Read range	Temperature	Fixing
	MRX-CER-2117	Ceramic · 21 × 17 × 2 mm	Higgs 3 · UCODE 8	2.1 m	−25 to +75 °C	Adhesive
	MRX-CER-2509	Ceramic · 25 × 9 × 3 mm	Higgs 3 · UCODE 8	4 m	−25 to +75 °C	Adhesive
	MRX-CER-2525	Ceramic · 25 × 25 × 3 mm	Higgs 3 · UCODE 8	5 m	−25 to +75 °C	Adhesive

UHF 902–928 MHz shown; ETSI 865–868 MHz versions available.

RFID

Long-range PCB on-metal tags

Robust bars for racks, containers and machines.

	Code	Material & size	Chip (EPC/user bits)	Read range	Temperature	Fixing
	MRX-PCB-3613	PCB · 36 × 13 × 3 mm	Monza 4QT · UCODE 8	1.1 m (M4QT) · 1.7 m (U8)	−25 to +75 °C	Adhesive, screw, rivet
	MRX-PCB-5010	PCB · 50 × 10 × 3 mm	UCODE 8 (128/0)	1.5 m	−25 to +75 °C	Adhesive, screw, rivet
	MRX-PCB-5313	PCB · 53 × 13 × 3.4 mm	Monza 4QT (128/512)	1.55 m	−25 to +75 °C	Adhesive, screw, rivet
	MRX-PCB-6025	PCB · 60 × 25 × 3.4 mm	Monza 4QT (128/512)	2 m	−25 to +75 °C	Adhesive, screw, rivet

	Code	Material & size	Chip (EPC/user bits)	Read range	Temperature	Fixing
	MRX-PCB-7020	PCB · 70 × 20 × 3.4 / 3.0 mm	Monza 4QT · UCODE 8	2 m	−25 to +75 °C	Adhesive, screw, rivet
	MRX-PCB-7515	PCB · 75 × 15 × 3 mm	UCODE 8 (128/0)	1.5 m	−25 to +75 °C	Adhesive, screw, rivet
	MRX-PCB-8020	PCB · 80 × 20 × 3.4 / 3.0 mm	Monza 4QT · UCODE 8	2.2 m	−25 to +75 °C	Adhesive, screw, rivet
	MRX-PCB-8530	PCB · 85 × 30 × 3.4 mm	QSTAR (496/1496) · Higgs 3	1.8 m	−25 to +75 °C	Adhesive, screw, rivet
	MRX-PCB-8554	PCB · 85 × 54 × 3.4 mm	QSTAR (496/1496) · Higgs 3	4 m	−25 to +75 °C	Adhesive, screw, rivet
	MRX-PCB-9011	PCB · 90 × 11 × 3.4 mm	Monza 4QT (128/512)	1.8 m	−25 to +75 °C	Adhesive, screw, rivet
	MRX-PCB-9522	PCB · 95 × 22 × 3 mm	Monza 4QT (128/512)	3.7 m	−25 to +75 °C	Adhesive, screw, rivet

	Code	Material & size	Chip (EPC/user bits)	Read range	Temperature	Fixing
	MRX-PCB-9525	PCB · 95 × 25 × 3.4 / 3.0 mm	Monza 4QT · UCODE 8	3.7 m	−25 to +75 °C	Adhesive, screw, rivet
	MRX-PCB-10030	PCB · 100 × 30 × 3.4 mm	Monza 4QT (128/512)	3.7 m	−25 to +75 °C	Adhesive, screw, rivet

UHF 902–928 MHz shown; ETSI 865–868 MHz versions available.

RFID

Rugged plastic tags

Engineering plastic housings in many colours — 10-year outdoor life available.

	Code	Material & size	Chip (EPC/user bits)	Read range	Temperature	Fixing
	MRX-PLS-2003020	Engineering plastic · 200 × 30 × 18 mm	UCODE 7M	9 m	−25 to +70 °C	Adhesive, screw, rivet, cable tie
	MRX-PLS-1553010	Engineering plastic · 155 × 30 × 10 mm	UCODE 7M	7 m	−25 to +70 °C	Adhesive, screw, rivet, cable tie
	MRX-PLS-852011	Engineering plastic · 85 × 20 × 11 mm	Monza 4QT (128/512)	4 m	−25 to +70 °C	Adhesive, screw, rivet
	MRX-PLS-7025065	Engineering plastic · 70 × 25 × 5 mm	UCODE 7M (96/32)	1.5 m	−25 to +70 °C	Adhesive, screw, rivet

	Code	Material & size	Chip (EPC/user bits)	Read range	Temperature	Fixing
	MRX-PLS-3512	Engineering plastic · 35 × 12 × 5 mm	Higgs 3 (96/512)	1.5 m	−25 to +70 °C	Adhesive
	MRX-PLS-8856-ELP	Electronic licence plate · PC 88 × 56.5 × 4 / 85.6 × 54 × 3.3 mm	Higgs 3, Monza 4QT or customer chip	To your requirement	−25 to +80 °C	Adhesive (anti-removal option)
	MRX-EAS-01	ABS · EAS + RFID hard tag, colours to choose	UHF chip of choice + EAS (RF or AM)	UHF	−25 to +70 °C	Opened with special tool

RFID

Flexible PET on-metal tags

Thin, bendable tags for curved or irregular metal surfaces.

	Code	Material & size	Chip (EPC/user bits)	Read range	Temperature	Fixing
	MRX-PET-10325	PET · 103 × 25 × 1.7 mm	Monza 4QT · UCODE 7XM+2K (448/2048)	3.5 m	−25 to +70 °C	Adhesive
	MRX-PET-7325	PET · 73 × 25 × 1.7 mm	Monza 4QT · UCODE 7XM+2K (448/2048)	2.4 m	−25 to +70 °C	Adhesive
	MRX-PET-6025	PET · 60 × 25 × 1.7 mm	Monza 4QT · UCODE 7XM+2K (448/2048)	2 m	−25 to +70 °C	Adhesive
	MRX-PET-PRINT	Printable on-metal label · PET, any size, prints on RFID printers	Monza R6 (128/0)	Depends on size	−25 to +70 °C	Adhesive

RFID

High-temperature tags

Housings up to +200 °C and flexible PI tags up to +180 °C for paint shops, autoclaves and electronics production.

	Code	Material & size	Chip (EPC/user bits)	Read range	Temperature	Fixing
	MRX-PLS-4631	Engineering plastic · 46 × 31 × 7.5 mm	Higgs 3, UCODE 7M or R6-P	5 m	Up to +200 °C (−40 to +200 °C	Screw, rivet
	MRX-PLS-3714	Engineering plastic · 37 × 14 × 7 mm	Higgs 3, UCODE 7M or R6-P	2 m	Up to +200 °C (−40 to +200 °C	Screw, rivet
	MRX-PI-4909-U8	PI flexible · 49 × 9 × 1.02 mm	UCODE 8 (UHF)	10-year life	−45 to +180 °C	In-shell or flush mounting
	MRX-PI-2525-R6P	PI flexible · 25 × 25 × 1.15 mm	Monza R6-P (UHF, 128/32)	10-year life	−45 to +180 °C	In-shell or flush mounting

	Code	Material & size	Chip (EPC/user bits)	Read range	Temperature	Fixing
	MRX-PI-1308-SLIX	PI flexible · 13 × 8 × 1.12 mm	ICODE SLIX (HF)	10-year life	−45 to +180 °C	In-shell or flush mounting
	MRX-PI-1812-SLIX	PI flexible · 18 × 12 × 0.83 mm	ICODE SLIX (HF)	10-year life	−45 to +180 °C	In-shell or flush mounting
	MRX-PI-2518-SLIX	PI flexible · 25 × 18 × 0.84 mm	ICODE SLIX (HF)	10-year life	−45 to +180 °C	In-shell or flush mounting
	MRX-PI-1010-SLIX	PI flexible · Ø 10 mm	ICODE SLIX (HF)	10-year life	−45 to +180 °C	In-shell or flush mounting

RFID

Laundry tags

Sewn, heat-sealed or in a pouch inside linen and uniforms · > 200 wash cycles · 3-year or 200-cycle warranty.

	Code	Material & size	Chip (EPC/user bits)	Life	Process resistance	Fixing
	MRX-LDY-7015	Textile · 70 × 15 × 1.5 mm	UCODE 7M (128/32)	> 200 cycles	Wash 90 °C/15 min · ironer 190 °C/12 s · sterilisation 135 °C/20 min	Sewing
	MRX-LDY-7015-H	Textile · 70 × 15 × 1.5 mm	UCODE 7M (128/32)	> 200 cycles	Wash 90 °C · ironer 190 °C · sterilisation 135 °C	Sewing or heat sealing (210 °C/15 s)
	MRX-LDY-7015-MRI	Textile · 70 × 15 × 1.5 mm	UCODE 7M (128/32)	> 200 cycles	Wash 90 °C · ironer 190 °C · sterilisation 135 °C	Sewing
	MRX-LDY-7515	Textile · 75 × 15 × 1.5 mm	UCODE 7M (128/32)	> 200 cycles	Wash 90 °C · ironer 190 °C · sterilisation 135 °C	Sewing or cable tie

	Code	Material & size	Chip (EPC/user bits)	Life	Process resistance	Fixing
	MRX-LDY-7010	Textile · 70 × 10 × 1.5 mm	UCODE 7M (128/32)	> 200 cycles	Wash 90 °C · ironer 190 °C · sterilisation 135 °C	Sewing
	MRX-LDY-7018	Textile · 70 × 18 × 1.5 mm	UCODE 7M (128/32)	> 200 cycles	Wash 90 °C · ironer 190 °C · sterilisation 135 °C	Sewing
	MRX-LDY-5815	Textile · 58 × 15 × 1.5 mm	UCODE 7M (128/32)	> 200 cycles	Wash 90 °C · ironer 190 °C · sterilisation 135 °C	Sewing
	MRX-LDY-5512	Silicone textile · 55 × 12 × 2.5 mm	UCODE 7M (128/32)	> 200 cycles	Wash 85 °C/15 min · ironer 160 °C · 135 °C · 20 bar	Sewing
	MRX-PLS-2020	PPS + epoxy button · Ø 20 mm	UCODE 7M (128/32) or Higgs 3	> 200 cycles	Wash 90 °C · ironer 180 °C/12 s · 135 °C · 20 bar	Pouch
	MRX-PLS-2525	PPS + epoxy button · Ø 25 mm	UCODE 7M (128/32) or Higgs 3	> 200 cycles	Wash 90 °C · ironer 180 °C/12 s · 135 °C · 20 bar	Pouch
	MRX-PLS-1818	PPS + epoxy button · Ø 18 mm, 2 holes	UCODE 7M · Monza 4QT	> 200 cycles	Wash 90 °C · ironer 180 °C/12 s · 135 °C · 20 bar	Sewing
	MRX-LDY-W9040	Printable polymer label · 90 × 40 × 0.35 mm	Monza R6 (96/0), other chips optional	1 wash (garment production)	−25 to +70 °C	Sewing

UHF 860–960 MHz · ETSI and FCC versions for every model.

RFID

Tie tags

For gas cylinders, fire extinguishers, cables, textiles and sacks — HF or UHF, printed with your logo, barcode or QR code.



MRX-TIE-SL

Self-locking tie tag

One-time use: the tie goes in but not out.

Frequency	13.56 MHz or 860–960 MHz
Protocol	ISO 14443A · ISO 15693 · ISO 18000-6C
Life	≥ 100,000 write cycles · ≥ 10 years

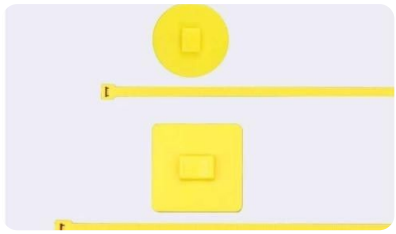


MRX-TIE-MV

Movable-lock tie tag

Press to release — the tag can be reused.

Frequency	13.56 MHz or 860–960 MHz
Protocol	ISO 14443A · ISO 15693 · ISO 18000-6C
Life	≥ 100,000 write cycles · ≥ 10 years



MRX-TIE-SP

Separate tie tag

Tag and tie come apart; the tie is replaceable.

Frequency	13.56 MHz or 860–960 MHz
Protocol	ISO 14443A · ISO 15693 · ISO 18000-6C
Life	≥ 100,000 write cycles · ≥ 10 years

Chips: Fudan FM11RF08, ICODE SLIX, NTAG213, Higgs 3, Impinj M730 · PP · −25 to +55 °C · colours to order.

RFID

Cards & wearables

Cards, fobs and wristbands in HF, LF and UHF — printed, personalised and encoded to order.



MRX-CARD-STD

RFID & NFC cards

PVC cards in HF, LF or UHF — printed and encoded.



MRX-CARD-WOOD

Wooden cards (FSC)

Sustainable wooden key and member cards.



MRX-CARD-MTL

Metal cards

Premium metal cards with an RFID inlay.



MRX-FOB

Key fobs

Access fobs in many shapes and colours.



MRX-WB

Wristbands

Silicone, fabric or PVC wristbands for events and access.



MRX-ANM

Animal ear tags

Livestock identification tags.

RFID

Desktop readers

USB desktop readers for encoding and checking tags at the desk.



MRX-RD-A6

HF + LF desktop reader

Frequency	13.56 MHz · 125 / 134 kHz
Standards	ISO 14443A/B · ISO 15693 · ISO 18000-2 · ISO/IEC 7816
Interface	USB



MRX-RD-U3

UHF desktop reader

Frequency	902–928 · 865–868 MHz
Standards	ISO 18000-63 (EPC Gen2)
Interface	USB



MRX-RD-Q7

HF multi-protocol desktop reader

Frequency	13.56 MHz
Standards	ISO 14443A/B · ISO 15693
Interface	USB

All readers 99.5 × 99.5 × 19.8 mm · 1 m cable · DC 5 V · −10 to +50 °C.

IOT CARGO SECURITY

Featured IoT devices

Our flagship connected locks, with full MinRix datasheets.



MR800-N · E-Lock

Electronic Lock

4G GPS / BeiDou cable e-lock for containers, trucks and cargo: sealing and unsealing by NFC card, reader, Bluetooth app or platform.

4G / LTE · GPS / BDS · Bluetooth · NFC · Reader · App · Platform · Rechargeable · Offline storage · Cut alarm

Request a quote ↗

Lock cable	Ø 7 mm 304 stainless steel (Ø 4 mm optional), length to order · > 200 kg tensile
Communication	4G LTE · Bluetooth 5.2
Positioning	GPS / BeiDou · CEP ≤ 3 m
Unsealing	NFC card (ISO 14443A), fixed or handheld reader, app, platform
Alarms	Body tamper and cable cut, with platform notification
Battery	14,400 mAh · 12,600 mAh low-temperature option · 7 to 180 days
Storage	Up to 8,000 offline records
Protection	IP67 · −20 to +70 °C (−40 °C option) · IEC 60068-2 tested
Body	Die-cast aluminium · approx. 91 × 142 × 48.6 mm · OLED display



MR800-P · E-Lock

Electronic Lock with Keypad

The MR800-N with a touch keypad: also unseals by dynamic or emergency password.

4G / LTE · GPS / BDS · Bluetooth · NFC · Password · Reader · App · Platform · Rechargeable · Offline storage

Request a quote ↗

Lock cable	Ø 7 mm 304 stainless steel (Ø 4 mm optional), length to order · > 200 kg tensile
Communication	4G LTE · Bluetooth 5.2
Positioning	GPS / BeiDou · CEP ≤ 3 m
Unsealing	NFC card, reader, app, platform, dynamic or emergency password
Alarms	Body tamper and cable cut, with platform notification
Battery	14,400 mAh · 12,600 mAh low-temperature option · 7 to 180 days
Storage	Up to 8,000 offline records
Protection	IP67 · −20 to +70 °C (−40 °C option)
Body	Die-cast aluminium · touch keypad · OLED display



MR900 · E-Lock

Video Smart Lock

GPS / 4G video security e-lock: live video in the platform and app, and a snapshot or clip on every lock, unlock and tamper event.

4G / LTE · GPS / BDS · Bluetooth · NFC · Reader · App · Platform · Rechargeable · Offline storage · Cut alarm

Request a quote ↗

Camera	2 MP HD · H.264 live video · snapshot and clip on locking, unlocking and tamper
Communication	4G LTE · Bluetooth 5.2
Positioning	GPS / BeiDou · CEP ≤ 3 m
Unsealing	NFC card or reader, mobile app, platform
Storage	TF card 8–512 GB option · 8,000 offline records
Battery	14,400 mAh · 12,600 mAh low-temperature option · 3 to 180 days
Protection	IP67 · −20 to +70 °C (−40 °C option)
Lock cable	Ø 7 mm 304 stainless steel · > 200 kg tensile

IOT CARGO SECURITY

E-Lock

Electronic locks with 4G, GPS / BeiDou, Bluetooth and RFID unlocking for trucks, containers, tanks and gates.



MR600-N · E-Lock

E-Lock for Cold Chain

GPS e-lock for cold-chain cargo with tamper detection, route playback and remote monitoring.

4G / LTE · GPS / BDS · Bluetooth · RFID card · App · Web · SMS

Material	Body: aluminum alloy / Shackle: 304 stainless steel
Dimensions	108 × 86 × 47.6 mm
Unlock	RFID / APP / BLE / Web / SMS / Reader / Remote
Alarm	Tamper or cut alarm
Battery	9600 mAh (rechargeable)
Rating	IP67 waterproof

Use: Cold storage, Grain depot, Warehouse, Container, Reefer

Request a quote ↗



MR600-P · E-Lock

E-Lock for Cold Chain

Industrial-grade long-standby cold-chain e-lock with password unlock and IP67 protection.

4G / LTE · GPS / BDS · Bluetooth · RFID card · Password · App · Web

Material	Body: aluminum alloy / Shackle: 304 stainless steel
Dimensions	108 × 86 × 47.6 mm
Unlock	RFID / APP / BLE / Password / Web / SMS / Reader / Remote (optional)
Alarm	Tamper or cut alarm
Battery	9600 mAh (rechargeable)
Rating	IP67 waterproof

Use: Tanker, Reefer, Container, Storage tank

Request a quote ↗



MR650-N · E-Lock

E-Lock for Stake Truck

Logistics e-lock for supermarket and commercial vehicles, adaptable to various truck models.

4G / LTE | GPS / BDS | Bluetooth | RFID card | App | Web | SMS

Material	Body: aluminum alloy / Shackle: 304 stainless steel
Dimensions	113.2 × 87.7 × 46.8 mm
Position	GPS / AGPS / LBS / WiFi
Unlock	RFID / APP / BLE / Web / SMS
Alarm	Tamper or cut alarm
Battery	9600 mAh (rechargeable)

Use: Stake truck

Request a quote ↗



MR300-N · E-Lock

E-Lock for Truck

Compact 4G electronic lock with NFC and mechanical-key backup for truck and cargo transport.

4G / LTE | GPS / BDS | Bluetooth | NFC | App | Platform | Mech. key

Material	Body: aluminum alloy / Shackle: 304 stainless steel
Dimensions	118.06 × 87.56 × 45.90 mm
Position	BDS / GPS
Unlock	BLE / APP / NFC / Remote / Mechanical key
Battery	1000 mAh
Alarm	Tamper or cut alarm

Use: Warehouse, Container, Flat-bed, Reefer

Request a quote ↗



MR300-P · E-Lock

E-Lock for Truck

GPS smart padlock with touch panel, NFC and mechanical-key backup.

GPS / BDS | Bluetooth | NFC | App | Platform | Mech. key | Offline storage

Material	Body: aluminum alloy / Shackle: 304 stainless steel
Dimensions	118.06 × 87.56 × 45.90 mm
Position	BDS / GPS
Unlock	BLE / APP / NFC / Remote / Mechanical key
Battery	1000 mAh
Alarm	Tamper or cut alarm

Use: Reefer, Stake truck, Box truck, Flat-bed, Container

Request a quote ↗



MR350-N · E-Lock

E-Lock for Container

GPS e-lock for high-value shipments such as non-ferrous metals, with data encryption and traceability.

4G / LTE | GPS / BDS | Bluetooth | NFC | App | Web | SMS

Material	Shackle: 304 stainless steel
Dimensions	128 × 100 × 50 mm
Position	BDS / GPS
Unlock	BLE / APP / Web / Remote / SMS / NFC
Alarm	Unauthorized access alarm / Low battery alarm
Battery	1000 mAh

Use: Tanker, Container, Storage tank, Pipeline

Request a quote ↗



MR390-N · E-Lock

E-Lock for Flat-bed Truck

Cable e-lock for flat-bed trucks and irregular cargo with anti-tamper alarm.

GPS / BDS · Bluetooth · NFC · App · Platform · Offline storage · Cut alarm

Material	Body: aluminum alloy / Stainless-steel lock cable
Position	BDS / GPS
Unlock	BLE / APP / NFC / Remote
Alarm	Tamper or cut alarm
Rating	IP67 waterproof
Storage	8000+ blind-spot records

Use: Flat-bed, Irregular cargo

Request a quote ↗



MR800-L · E-Lock

E-Lock for Tank Truck

GPS + LoRa master padlock that works with LoRa sub-locks and sensors on tank trucks.

4G / LTE · LoRa · GPS / BDS · Bluetooth · RFID card · Password · App

Material	Body: aluminum alloy / Soft wire rope
Dimensions	91 × 142 × 48.6 mm
LoRa	Collaborative monitoring with LoRa sub-locks and sensors
Position	BDS / GPS / AGPS / LBS / WiFi
Unlock	RFID / APP / BLE / Web / Password / SMS / Reader (optional)
Alarm	Tamper or cut alarm

Use: Tanker

Request a quote ↗



MR500-N · E-Lock

E-Lock for Box Truck

Compact 4G real-time positioning lock, salt-spray and corrosion resistant for road and sea freight.

4G / LTE · GPS / BDS · Bluetooth · RFID card · App · Web · SMS

Material	Body: aluminum alloy / Shackle: 304 stainless steel
Dimensions	92 × 71.3 × 44.5 mm
Position	BDS / GPS / AGPS / LBS / WiFi / BLE 5.2
Unlock	RFID / APP / BLE / Web / SMS / Reader
Alarm	Tamper or cut alarm
Battery	4800 mAh (rechargeable)

Use: Stake truck, Box truck, Container

Request a quote ↗



MR210 · E-Lock

E-Lock for Tank Truck (sub-lock)

LoRa sub-lock (wire rope) that reports through a master lock or controller; no own GPS.

LoRa · Bluetooth · RFID card · Platform · Rechargeable · Offline storage · Cut alarm

Unlock	RFID / BLE / Remote
LoRa	915 MHz (other frequencies customizable) / BLE 5.0
Alarm	Tamper or cut alarm
Battery	4800 mAh (rechargeable)
Storage	8000+ blind-spot records
Rating	IP67 waterproof

Use: Stake truck, Tanker, Box truck, Container, Flat-bed, Reefer

Request a quote ↗



MR220 · E-Lock

E-Lock for Tank Truck (sub-lock)

LoRa shackle sub-lock with remote unlocking for vans, trucks, tanks and warehouses.

LoRa · Bluetooth · RFID card · App · Platform · Rechargeable · Offline storage

Material	Body: aluminum alloy / Shackle: 304 stainless steel
Dimensions	92 × 71.3 × 44.5 mm
Unlock	RFID / BLE / APP / Remote
LoRa	915 MHz (other frequencies customizable) / BLE 5.2
Alarm	Tamper or cut alarm
Battery	4800 mAh (rechargeable)

Use: Van, Box truck, Stake truck, Flat-bed, Reefer, Tanker

Request a quote ↗



MR1100 · E-Lock

AI Radar Padlock

Solar-charged AI padlock: 10 m radar wakes the camera when people approach a parked vehicle.

4G / LTE · LoRa · Bluetooth · Solar · Camera · Radar / AI · Cut alarm

Lock rope material	Soft steel wire rope
Wireless	BLE / LoRa / 4G
Battery	19200 mAh
Solar charging	50 × 120 mm monocrystalline silicon panel
Rating	IP67
Dimensions	213.5 × 60.5 × 70.5 mm

Use: Warehouse, Pipeline, Storage tank, Tanker, Weighbridge, Stake truck

Request a quote ↗



MR1000 · E-Lock

AI Padlock

Logistics AIoT lock with radar presence, breathing and heartbeat detection plus video.

GPS / BDS · Camera · Radar / AI · Cut alarm

Material	Aluminum alloy
Dimensions	153 × 97 × 66.5 mm
Position	GPS / AGPS / LBS / WiFi
Battery	19200 mAh
Rating	IP67 waterproof
Radar	Human movement / presence / breathing and heartbeat detection

Use: Stake truck, Tanker, Weighbridge, Box truck, Flat-bed, Reefer

Request a quote ↗



MR800-S · E-Lock

E-Lock for Cross-Border Freight

Customs e-lock against tampering and smuggling in cross-border transport.

4G / LTE · GPS / BDS · Bluetooth · App · SMS · Reader · Platform

Material	Body: aluminum alloy / Soft wire rope
Dimensions	91 × 142 × 48.6 mm
Position	GPS / AGPS / LBS / WiFi
Unlock	APP / BLE / Remote / SMS / Reader
Alarm	Tamper or cut alarm
Battery	14400 mAh (rechargeable)

Use: Cross-border, Weighbridge, Box truck, Container, Storage tank, Flat-bed

Request a quote ↗



MR900-S · E-Lock

E-Lock for Cross-Border Freight

Customs e-lock with 2 MP camera and customizable wire-rope length.

4G / LTE | Bluetooth | App | SMS | Reader | Platform | Rechargeable

Material	Body: aluminum alloy / Soft wire rope (length customizable)
Dimensions	91 × 142 × 48.6 mm
Unlock	APP / BLE / Remote / SMS / Reader (optional)
Alarm	Tamper or cut alarm
Battery	14400 mAh (rechargeable)
Rating	IP67 waterproof

Use: Cross-border, Weighbridge, Box truck, Container, Storage tank, Flat-bed

Request a quote ↗



MR150 · E-Lock

GPS Tracker

Battery GPS asset tracker with illegal-removal alarm and optional solar charging.

4G / LTE | GPS / BDS | Bluetooth | Solar | Removal alarm

Material	PC
Network	4G / GPS / BLE 5.0
Position	GPS / AGPS / LBS / WiFi
Alarm	Illegal removal
Battery	9600 mAh / configurable solar charging
Rating	IP67 waterproof and dustproof

Use:

Request a quote ↗



MR160 · E-Lock

GPS Tracker

GPS tracker for shipping and rail containers, IP67, optional solar charging.

4G / LTE | GPS / BDS | Bluetooth | Solar | Rechargeable | Removal alarm

Material	PC
Position	GPS / AGPS / LBS / WiFi
Network	4G (LTE) & GPRS / BLE 5.0
Alarm	Illegal removal
Battery	9600 mAh (rechargeable) / configurable solar charging
Rating	IP67 waterproof

Use: Container, Rail

Request a quote ↗



MR160-C · E-Lock

GPS Tracker with Camera

Ocean-freight tracker with 2 MP camera and 4G Cat-1.

4G / LTE | GPS / BDS | Bluetooth | Rechargeable | Removal alarm | Camera

Material	PC
Position	GPS / AGPS / LBS / WiFi
Network	4G (LTE) & GPRS / BLE 5.0
Alarm	Illegal removal
Battery	9600 mAh (rechargeable)
Rating	IP67 waterproof

Use: Ocean freight, Container

Request a quote ↗



MR760 · E-Lock

AI Camera Controller

3 MP AI camera that manages e-locks centrally and links LoRa sub-locks and sensors.

4G / LTE | GPS / BDS | LoRa | Camera | Radar / AI | Master unit

Material	PC
Functions	Reading, writing and unlocking lock data
Protection	IP67
	lightning, bump and static protection
Connect	4G, GPS
AI	Intrusion detection, FSD

Use: Grain depot, Gate, Warehouse, Tanker, Stake truck, Container

Request a quote ↗



MR700 · E-Lock

Reader

Fixed IP65 reader with 30 m identification range and RS485 / RJ45 interfaces.

RS485 / RJ45

Identification range	30 m
Interfaces	RS485 / RJ45
Current	< 95 mA
Rating	IP65 waterproof
Anti-interference	3000 V ESD test for 30 s

Use:

Request a quote ↗



MR710 · E-Lock

Reader

Waterproof lock reader with 30 m identification range and RS485 / RJ45 interfaces.

RS485 / RJ45

Identification range	30 m
Interfaces	RS485 / RJ45
Rating	IP65 waterproof
Anti-interference	3000 V ESD test for 30 s

Use:

Request a quote ↗

IOT CARGO SECURITY

E-Seal

Electronic seals that record every opening and alert on tamper.



MR400 · E-Seal

Smart Lock for Manhole Cover

Aluminum manhole-cover lock on 915 MHz with IC-card and PDA emergency unlocking.

Sub-GHz RF | IC card | Platform

Material	Aluminum alloy
Design	Lock body + lock cylinder
	multiple checks to prevent false locking
Communication	Full-duplex, ISM 915 MHz (factory settable)
Distance	20–100 m (adjustable)
Unlock	Lock control, PDA emergency unlocking / IC-card lock control

Use: Manhole

Request a quote ↗



MR420 · E-Seal

Valve Smart Lock

Valve lock for pipelines, storage tanks and tankers with password and IC-card unlocking.

Sub-GHz RF | Password | IC card

RFID band	ISM 868–915 MHz (factory settable)
RFID distance	> 50 m
Battery	1500 × 4 mAh
Unlock	Emergency password
	IC-card station-area unlocking
	emergency unlock on malfunction

Use: Pipeline, Storage tank, Tanker

Request a quote ↗



MR730 · E-Seal

Seal Controller

4G GPS controller module with 923 MHz LoRa to manage electronic seals and locks.

4G / LTE | GPS / BDS | LoRa | Bluetooth | Master unit

Material	Aluminum alloy
Position	GPS / LBS / WiFi / BLE 5.0
LoRa	923 MHz
Rating	IP67 waterproof
Module	4G GPS module, electronic lock module

Use: Warehouse, Container, Cold storage, Gate, Tanker, Stake truck

Request a quote ↗



MR740 · E-Seal

Seal Controller / Positioning Terminal

GPS positioning terminal that writes lock data and links up to 6 locks and sensors.

GPS / BDS | LoRa | Bluetooth | Master unit

Material	ABS
LoRa	Supports e-lock data writing
Position	GPS / LBS / WiFi / BLE 5.0
Sub-locks	Data interaction with up to 6 locks and sensors

Use: Warehouse, Container, Cold storage, Gate, Tanker, Stake truck

Request a quote ↗

IOT CARGO SECURITY

E-Box

Secure boxes for keys and valuables.



MR480 · E-Box

Smart Box

Tracked smart box for valuables with optional unboxing-snapshot camera.

GPS / BDS · NFC · App · Bluetooth · Platform · SMS · Rechargeable

Material	ABS + PC
Position	BDS / GPS / AGPS / LBS / WiFi
Camera	Optional 2 MP HD camera, unboxing snapshot
Unlock	NFC / APP / BLE / Remote / SMS
Alarm	Tamper / illegal demolition
Battery	6400 mAh (rechargeable)

Use: Valuables

Request a quote ↗

IOT CARGO SECURITY

E-Sensor

Sensors and gateways for doors, tanks and cargo.



MR780 · E-Sensor

Smart Gateway

Edge AI gateway for up to 8 AI cameras with 4 TB recording and enterprise-system integration.

Camera · Master unit

Processor	1.8 GHz octa-core A55 with G57 GPU
Video	8K decoding / encoding
Storage	4 GB RAM, 4 TB video storage
Options	Container-number recognition and access-control software
Camera input	8-channel AI cameras, vehicle cameras and surveillance video
Integration	Links communication data with enterprise business data

Use: Mining, Telecom tower, Locker, Electrical cabinet, Construction, Railway gate

Request a quote ↗



MR250 · E-Sensor

LoRa / BLE Sensor

Dual-mode LoRa + BLE sensor with removal alarm and 8000+ record buffer.

LoRa · Bluetooth · Offline storage · Removal alarm · Sub-device

Material	PC
Connectivity	LoRa 923 MHz / BLE 5.0
Alarm	Illegal removal
Battery	4800 mAh lithium-manganese
Storage	8000+ blind-spot records
Rating	IP67 waterproof

Use:

Request a quote ↗



MR260 · E-Sensor

LoRa / BLE Sensor

Dual-mode LoRa + BLE sensor with unauthorized-removal alarm.

LoRa · Bluetooth · Offline storage · Removal alarm · Sub-device

Material	PC
Connectivity	LoRa 923 MHz / BLE 5.0
Alarm	Illegal removal
Battery	4800 mAh lithium-manganese
Storage	8000+ blind-spot records
Rating	IP67 waterproof

Use:

Request a quote ↗



MR790 · E-Sensor

E-Cabinet

AIoT management cabinet with 30 charging ports, display and BLE / password door opening.

4G / LTE · Bluetooth · Password · RS485 / RJ45

Material	0.8 mm cold-rolled steel
Shell dimensions	85 × 172 × 58 cm
Compartment	24 × 14 × 45 cm
Network	4G / WiFi 2.4 GHz / BLE 5.0
Charging ports	30
Door opening	BLE / Password

Use: Warehouse, Railway gate, Construction

Request a quote ↗

IOT CARGO SECURITY

Video & platform

Video terminals and the monitoring platform that ties every device together.



MN-CARGO · Video terminal

Portable AI video terminal

Mounts directly on the container door. A 360° panoramic camera with on-device AI watches the door and surroundings from origin to destination port. No wiring — deployed in about 10 seconds, reusable from shipment to shipment.

Camera · 4G / LTE · Platform

View	360° panoramic
Intelligence	On-device AI event detection
Installation	No wiring · ≈ 10 s deploy
Evidence	Event clips to platform and app

Use: Container, Ocean freight, Cross-border

Request a quote ↗



MRX-PLATFORM · Software

MinRix monitoring platform & app

One web platform and mobile app for every lock, seal and sensor: live map and route playback, alarms, remote seal / unseal, unlock records and video.

Platform · App · Web

Live map	Position of every device and route history
Alarms	Tamper, cable cut, low battery, geofence
Remote control	Seal and unseal from platform or app
Records	Unlock records and seal reports
Video	Live video and clips (MR900, MN-Cargo)

Use: Container, Warehouse, Cross-border, Tanker

Request a quote ↗

03

Services

Market analysis, strategic consulting and professional training by a team with up to 15+ years of experience.





SUPPLY

Materials Market

Raw materials supplied directly by MinRix LLC.

Aluminium, magnesium and tin ingots, rock phosphate, silica sand and steam coal — copper, sulphur and MAP coming soon. One seller: contract, invoice and payment directly with MinRix LLC.

- Firm quote within 18 business hours
- Datasheet per grade
- Independent inspection (SGS or equivalent)
- Written contract with MinRix LLC

Contact sales@minrix.com ↗

TRACKING

IoT Solutions

RFID labels, e-locks and video terminals on one auditable platform.

IntelliSticker labels identify every item; MR-series e-locks and MN-Cargo secure the shipment; the platform shows location, condition and every event.

- Real-time location
- Condition monitoring & geofencing
- Automated alerts
- Chain of custody

Contact sales@minrix.com ↗





INTELLIGENCE

Market Analysis

Data-driven insights for industrial raw materials and IoT cargo-security markets.

From raw data to a decision: aggregation from government, trade and industry sources, validation, advanced analytics and expert interpretation.

- Commodity market analysis — price trends, supply and demand, forecasts
- Supply-chain intelligence — material flows, suppliers and logistics
- Market expansion — opportunities and risk
- Quarterly briefings and market alerts

Contact market_analysis@minrix.com ↗

ADVISORY

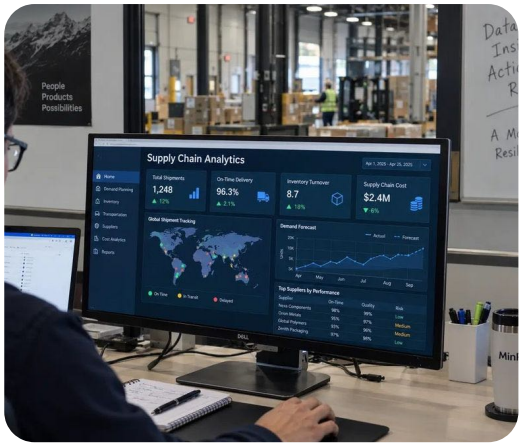
Strategic Consulting

Supply-chain, market-entry, cost and risk advisory.

Discovery → assessment → solution design → implementation → optimisation, hands-on alongside your team.

- Supply-chain optimisation with IoT visibility
- Market-entry strategy
- Cost reduction
- Risk management — theft, tampering, temperature loss
- M&A support
- Sustainability strategy

Contact consultation@minrix.com ↗





TRAINING

Professional Training

Programmes in raw materials, IoT solutions and supply-chain innovation.

Private sessions for corporate groups — your team size, materials and dates — with case studies, hands-on exercises and certificates.

- Advanced Metal Alloys — 3 days, intermediate
- Smart Industrial Packaging — 2 days, all levels
- Supply Chain Analytics — 5 days, advanced
- Certificates for completed programmes

Contact contact@minrix.com ↗

INDEX

Code index

Click a code to jump to the product. Quote any MinRix code in your request.

Code	Product
MRX-AL-A7	Aluminium Ingots · A7
MRX-AL-A8	Aluminium Ingots · A8
MRX-AL-A9	Aluminium Ingots · A9
MRX-MG-9995	Magnesium Ingots · 99.95 %
MRX-MG-9998	Magnesium Ingots · 99.98 %
MRX-MG-9999	Magnesium Ingots · 99.99 %
MRX-SN-9990	Tin Ingots · 99.90 %
MRX-SN-9995	Tin Ingots · 99.95 %
MRX-SN-9999	Tin Ingots · 99.99 %
MRX-PB-99994	Lead Ingots · Pb99.994
MRX-CU-BB	Copper Wire Millberry · #1 Bare Bright
MRX-RP-56	Rock Phosphate · BPL 56 %
MRX-RP-61	Rock Phosphate · BPL 61 %
MRX-RP-63	Rock Phosphate · BPL 63 %
MRX-RP-66	Rock Phosphate · BPL 66 %
MRX-RP-72	Rock Phosphate · BPL 72 %
MRX-SI-9933	Silica Sand · SiO_2 99.33 %
MRX-SI-9989	Silica Sand · SiO_2 99.89 %
MRX-SC-5400	Steam Coal · GAR 5400
MRX-SC-5800	Steam Coal · GAR 5800
MRX-SC-6400	Steam Coal · GAR 6400
MRX-S-9995	Sulphur · Granular 99.95 %
MRX-MAP-12610	MAP 12-61-0 · 12-61-0
MRX-IS-STD	IntelliSticker Label
MRX-IS-SEC	IntelliSticker Secure
MRX-IS-HANG	IntelliSticker Hang-tag
MRX-IS-METAL	IntelliSticker On-Metal
MRX-IS-RUG	IntelliSticker Ruggedized
MRX-IS-NFC	IntelliSticker NFC
MRX-IS-WIN	IntelliSticker Windshield
MRX-IS-JWL	IntelliSticker Jewellery Tag
MRX-IS-TUBE	IntelliSticker Test-tube

Code	Product
MRX-PCB-2309	PCB tag
MRX-CER-1010	Ceramic tag
MRX-CER-1309	Ceramic tag
MRX-CER-1616	Ceramic tag
MRX-CER-1909	Ceramic tag
MRX-CER-2117	Ceramic tag
MRX-CER-2509	Ceramic tag
MRX-CER-2525	Ceramic tag
MRX-PCB-3613	PCB tag
MRX-PCB-5010	PCB tag
MRX-PCB-5313	PCB tag
MRX-PCB-6025	PCB tag
MRX-PCB-7020	PCB tag
MRX-PCB-7515	PCB tag
MRX-PCB-8020	PCB tag
MRX-PCB-8530	PCB tag
MRX-PCB-8554	PCB tag
MRX-PCB-9011	PCB tag
MRX-PCB-9522	PCB tag
MRX-PCB-9525	PCB tag
MRX-PCB-10030	PCB tag
MRX-PLS-2003020	Engineering plastic tag
MRX-PLS-1553010	Engineering plastic tag
MRX-PLS-852011	Engineering plastic tag
MRX-PLS-7025065	Engineering plastic tag
MRX-PLS-3512	Engineering plastic tag
MRX-PLS-8856-ELP	Electronic licence plate tag
MRX-EAS-01	ABS tag
MRX-PET-10325	PET tag
MRX-PET-7325	PET tag
MRX-PET-6025	PET tag
MRX-PET-PRINT	Printable on-metal label tag
MRX-PLS-4631	Engineering plastic tag
MRX-PLS-3714	Engineering plastic tag

Code	Product
MRX-PLS-1818	PPS + epoxy button laundry tag
MRX-LDY-W9040	Printable polymer label laundry tag
MRX-TIE-SL	Self-locking tie tag
MRX-TIE-MV	Movable-lock tie tag
MRX-TIE-SP	Separate tie tag
MRX-CARD-STD	RFID & NFC cards
MRX-CARD-WOOD	Wooden cards (FSC)
MRX-CARD-MTL	Metal cards
MRX-FOB	Key fobs
MRX-WB	Wristbands
MRX-ANM	Animal ear tags
MRX-RD-A6	HF + LF desktop reader
MRX-RD-U3	UHF desktop reader
MRX-RD-Q7	HF multi-protocol desktop reader
MR800-N	Electronic Lock
MR800-P	Electronic Lock with Keypad
MR900	Video Smart Lock
MR600-N	E-Lock for Cold Chain
MR600-P	E-Lock for Cold Chain
MR650-N	E-Lock for Stake Truck
MR300-N	E-Lock for Truck
MR300-P	E-Lock for Truck
MR350-N	E-Lock for Container
MR390-N	E-Lock for Flat-bed Truck
MR800-L	E-Lock for Tank Truck
MR500-N	E-Lock for Box Truck
MR210	E-Lock for Tank Truck (sub-lock)
MR220	E-Lock for Tank Truck (sub-lock)
MR1100	AI Radar Padlock
MR1000	AI Padlock
MR800-S	E-Lock for Cross-Border Freight
MR900-S	E-Lock for Cross-Border Freight
MR150	GPS Tracker
MR160	GPS Tracker

Code	Product
MRX-IS-EMB	IntelliSticker Embedded Tag
LUMID-UL1	LUMID LED UHF Label
MR100	Temperature Tag MR100
MRX-INL-DRY	Dry inlay
MRX-INL-WET	Wet inlay
MRX-INL-PAP	Paper label
MRX-SL-JWL	Jewellery label
MRX-SL-CLO	Clothing label
MRX-SL-BOOK	Book label
MRX-SL-FOM	Flexible on-metal label
MRX-PCB-0505	PCB tag
MRX-PCB-0904	PCB tag
MRX-PCB-1005	PCB tag
MRX-PCB-1010	PCB tag
MRX-PCB-1207	PCB tag
MRX-PCB-1309	PCB tag
MRX-PCB-1809	PCB tag
MRX-PCB-2208	PCB tag

Code	Product
MRX-PI-4909-U8	PI flexible tag
MRX-PI-2525-R6P	PI flexible tag
MRX-PI-1308-SLIX	PI flexible tag
MRX-PI-1812-SLIX	PI flexible tag
MRX-PI-2518-SLIX	PI flexible tag
MRX-PI-1010-SLIX	PI flexible tag
MRX-LDY-7015	Textile laundry tag
MRX-LDY-7015-H	Textile laundry tag
MRX-LDY-7015-MRI	Textile laundry tag
MRX-LDY-7515	Textile laundry tag
MRX-LDY-7010	Textile laundry tag
MRX-LDY-7018	Textile laundry tag
MRX-LDY-5815	Textile laundry tag
MRX-LDY-5512	Silicone textile laundry tag
MRX-PLS-2020	PPS + epoxy button laundry tag
MRX-PLS-2525	PPS + epoxy button laundry tag

Code	Product
MR160-C	GPS Tracker with Camera
MR760	AI Camera Controller
MR700	Reader
MR710	Reader
MR400	Smart Lock for Manhole Cover
MR420	Valve Smart Lock
MR730	Seal Controller
MR740	Seal Controller / Positioning Terminal
MR480	Smart Box
MR780	Smart Gateway
MR250	LoRa / BLE Sensor
MR260	LoRa / BLE Sensor
MR790	E-Cabinet
MN-CARGO	Portable AI video terminal
MRX-PLATFORM	MinRix monitoring platform & app

MINRIX LLC.

Let's talk about your next order

Every inquiry answered within 18 business hours. Monday–Friday, 09:00–18:00 (Dubai time).

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Typical values from the MinRix technical data sheets. Binding specifications, packing and inspection are confirmed in the MinRix quotation and contract. No prices are shown in this catalogue — please request a quote.

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