DATASHEET

IS-MC540.1

MULTI CHARGER
FOR IS540.X

90 mm

113 mm

595 mm

PRODUCT DESCRIPTION

The Multi Charger IS-MC540.1 allows charging of up to five devices and its spare batteries at the same time.
It is compatible with the devices IS540.1, IS540.M1 and IS540.2

1 ❯ Charging tray for single battery
2 ❯ Charging slot IS540.x
3 ❯ Indicator LED IS540.X: Display for charging status IS540.x
4 ❯ Indicator LED battery: Display for battery charging status

TECHNICAL FEATURES

Input	100-240 V │ 1,1 A │ 50-60 Hz
Output	DC 5 V
Dimensions	593 x 112 x 90 mm (LxWxH)
Weight	~ 1725 g
Connection	Charging contacts
Capacity	Maximum 5 devices and its spare batteries at the same time
Compatibility	IS540.1, IS540.M1, IS540.2

SET CONTENT

Multi Charger IS-MC530.1, Power Cable C7 AU/EU/UK/US, Quick Start Manual and Safety Instructions

Please visit our website and you will find more detailed information, as well as an overview of compatible accessories.

i.safe MOBILE

DATASHEET

⟨ **IS540.M1** ⟩

APPROVALS

ATEX approval: Mining
Ⓔ I M1 Ex ia I Ma
Ⓔ II 2G Ex ib IIC T4 Gb
Ⓔ II 2D Ex ib IIIC T135°C Db

IECEx IECEx approval: Mining
Ex ia I Ma
Ex ib IIC T4 Gb
Ex ib IIIC T135°C Db

TECHNICAL FEATURES MODEL M540A01

Operating system	Android™ 12
Processor	Qualcomm® QCM6490 Octa Core
Memory	8 GB RAM | 128 GB internal memory | microSD memory up to 128 GB
Supported frequency bands	2G GSM: 850/900/1800/1900 MHz 3G WCDMA: B1/2/4/5/8 4G LTE-FDD: B1/2/3/4/5/7/8/12 with MFBI B13/14/17/20/25/26/28/29/30/66/71 4G LTE-TDD: B38/39/40/41/42/43/48 5G NR: n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/n30/n38/n40/n41/n48/n66/n71/n77/n78/n79
Dimensions	Size: 180,0 x 84,9 x 20,6 mm | weight: 422 g
Display	6" | Corning® Gorilla® Glass 3rd generation | 1080 x 2160 pixels | FHD
Battery	4400 mAh | replaceable
Camera	48 MP AF rear camera | 5 MP FF front camera
SIM support	1 nano SIM + eSIM
Connections	Wi-Fi® 6: IEEE 802.11 a/b/g/n/ac/ax/e/k/r/v Bluetooth® 5.2 GPS, A-GPS, Glonass, A-Glonass, Beidou, Galileo Near Field Communication (NFC)
Ports in/out	16-pin ISM interface USB-C
Sensors	Accelerometer, Gyroscope, Light, Magnetic, Proximity, Pressure sensors
Types of protection	IP68 dust-/waterproof | MIL-STD-810H | usable from -20 °C to +55 °C

FURTHER FEATURES

Red key top \| Optional functions assignable via Button App (system integrated), e.g. LWP

Side key left \| Optional functions assignable via Button App (system integrated), e.g. PTT

Amplified loudspeaker

SET CONTENT

Smartphone, Battery, i.safe PROTECTOR 2.0 Type C USB Cable, Power Adapter universal, Screwdriver, Display Protection Foil, Display Cleaning Cloth, Quick Start Manual and Safety Instructions

Please visit our website and you will find more detailed information, as well as an overview of compatible accessories.

Seek 2774

40 °C

49°44'13" N
9°27'9" E

24 °C

› **Capture, analyze and document thermal images**

‹ IS-TC1A.M1 ›

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The set consisting of the thermal imaging camera IS-TC1A.M1 and the industrial smartphone IS530.M1 detects temperatures in the Ex-hazardous area from -40 °C to 330 °C in a matter of seconds via the Seek Thermal app (free download in Google Play Store). The The thermal images and videos are processed and documented directly via the ISM interface of the IS530.M1 smartphone.

‹ i.safe MOBILE

DATASHEET

⟨ IS-TC1A.M1 ⟩

APPROVALS

ATEX approval: Ex-Zone M1 Mining
Ⓔ I M1 Ex ia I Ma
Ⓔ II 2G Ex ib IIC T4 Gb
Ⓔ II 2D Ex ib IIIC T135°C Db

IECEx approval: Ex-Zone M1 Mining
Ex ia I Ma
Ex ib IIC T4 Gb
Ex ib IIIC T135°C Db

TECHNICAL FEATURES

Sensor resolution	200 (h) x 150 (v) | 30000 Pixels | FixFocus | Digital zoom over app
Sensor sensivity	65 mK (typical)
Frame rate	<9 Hz to 32 Hz
Scene dynamic range	-40 °C to 330 °C
Temperature accuracy	± 7 °C and 7 % (at 5 °C to 140 °C) | ± 10 °C and 10 % (at 140 °C to 330 °C)
Detection range	up to 300 m
Recognition range	up to 75 m
Identification range	up to 25 m
View range	35° (HFOV) | 26° (VFOV)
Dimensions	size: 112 x 82 x 50 mm | weight: 190 g
Power supply	over the connected mobile device
Communication	over the multi functional ISM interface of the IS530.1
Types of protection	IP68 | MIL-STD 810H | useable from -20 °C to + 55 °C

⟨ IS530.M1 ⟩

Android™ 13

4,5" Gorilla Glass®
3. generation,
resolution 854 x 480 pixels

3600 mAh battery,
replaceable,
3,8 V, 13,68 Wh

Bluetooth® 5

4G GSM 850/900/1800/1900 MHz
WCDMA: UMTS B1/2/4/5/8
LTE-FDD: B1/2/3/4/5/7/8/12
with MFBI B13/14/17/20/25/
26/28A/28B/29/30/66
LTE-TDD: B38/B39/B40/B41
TD-SCDMA: B34/B39

Qualcomm Snapdragon SDM660 Octa-Core
Kryo Gold-Quad cores, 2,2 GHz
Kryo Silver-Quad cores, 1,8 GHz
4 GB RAM
64 GB internal memory

2,4 GHz + 5 GHz: IEEE 802.11
a/b/g/n/ac/e/k/r/h with hotspot
for max. 8 connections

The complete description you will find on our homepage: **www.isafe-mobile.com**
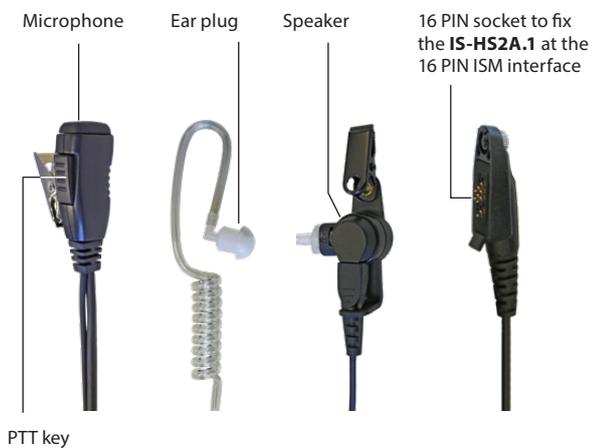
i.safe MOBILE

Please visit our website and you will find more detailed information, as well as an overview of compatible accessories.

DATASHEET

‹ IS-HS2A.1 ›

PTT/HEADSET
Air Tube Earplug/Microphone

Microphone   Ear plug   Speaker   16 PIN socket to fix
the **IS-HS2A.1** at the
16 PIN ISM interface

PTT key

EX-SPECIFICATIONS

The **IS-HS2A.1** is a headset suitable for use in potentially explosive atmospheres in accordance with the directive 2014/34/EU, as well as the IECEx scheme.

It is approved as an accessory device. Ex-marking see type examination certificate of the corresponding device. Compatible devices can be found at **www.isafe-mobile.com**.

FEATURES

16 PIN socket | suitable for all 16 ISM interfaces

PTT (Push to Talk) key with build-in microphone, crystal clear sound

Transparent flexible acoustic tube

Soft earplug is comfortable even wear for a long time

Please visit our website and you will find more detailed information, as well as an overview of our devices.

GROUP I M1 MINING

1D or 2D Barcode up to 18 m scan distance

IS-TH1xx.M1

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The mobile multifunctional set consisting of a Trigger Handle (hand-held barcode scanner) and an industrial smartphone IS530.x is a flexible combination for reliable data acquisition in Ex areas. The HID-active, ready-to-use high-performance scanner captures any 1D or 2D barcodes at close range of up to 6 meters or distances of up to 18 meters via the reliable Zebra OEM imager scan engines. The data is further processed directly via the IS530.x smartphone connected via the ISM interface.

IS-TH1xx.M1

ATEX approval: Mining
I M1 Ex ia op is I Ma
II 2G Ex ib op is IIC T4 Gb
II 2D Ex ib op is IIIC T135°C Db

IECEx approval: Mining
Ex ia op is I Ma
Ex ib op is IIC T4 Gb
Ex ib op is IIIC T135°C Db

TECHNICAL FEATURES

Weight	MR = 380 g	ER = 400 g (without IS530)
Size	202 x 90,4 x 125 mm
Indication function	Loudspeaker	Vibration	LED-Display
Power supply	Over IS530	this can be loaded in the handle
Communication	Over the multi functional ISM interface of the IS530
Type of protection	MIL-STD 810H	IP68 dust-/waterproof	usable from -20 °C to +60 °C

SCAN TYPES

■ **IS-TH1MR.M1** (mid range) with **Zebra SE4750 MR** | up to 6 m

■ **IS-TH1ER.M1** (extended range) with **Zebra SE4850 ER** | up to 18 m

IS530.M1

Android™ 13

4,5" Gorilla Glass® 3. generation, resolution 854 x 480 pixels

3600 mAh battery, replaceable, 3,8 V, 13,68 Wh

Bluetooth® 5

GSM 850/900/1800/1900 MHz
WCDMA: UMTS B1/2/4/5/8
LTE-FDD: B1/2/3/4/5/7/8/12 with MFBI B13/14/17/20/25/26/28A/28B/29/30/66
LTE-TDD: B38/B39/B40/B41
TD-SCDMA: B34/B39

Qualcomm Snapdragon SDM660 Octa-Core
Kryo Gold-Quad cores 2,2 GHz
Kryo Silver-Quad cores 1,8 GHz
4 GB RAM
64 GB internal memory

2,4 GHz + 5 GHz: IEEE 802.11 a/b/g/n/ac/e/k/r/h with hotspot for max. 8 connections

The complete description you will find on our homepage: **www.isafe-mobile.com**

Please visit our website and you will find more detailed information, as well as an overview of compatible accessories.

WWW.ISAFE-MOBILE.COM

EN

GROUP I M1 MINING

13-pin ISM interface

Android™ 13

Zero-touch capable MDM compatible

IS530.M1

Android Enterprise
Recommended

The powerful, particularly dust-proof industrial smartphone for the mining industry can be used in a variety of ways thanks to the ISM interface. Additional modules such as an RSM, PTT headsets or the professional barcode scanner IS-TH1.1 make the IS530.1 a high-performance multifunctional device. The smartphone is Android Enterprise Recommended, zero-touch capable and MDM compatible.

i.safe MOBILE

IS530.M1

 ATEX approval: Mining
Ⓔ I M1 Ex ia I Ma IP64

 IECEx approval: Mining
Ex ia I Ma IP64

 ANZEx approval: Mining
Ex ia I Ma
-20 °C ≤ Ta ≤ +60 °C

 EAC approval: Mining
PB Ex ib I Mb X

Further approvals: SANS (South Africa)

TECHNICAL FEATURES

Operating system	Android™ 13
Processor	SDM660 Octa-Core (Kryo Gold-Quad cores 2,2 GHz; Kryo Silver-Quad cores 1,8 GHz)
Memory	4 GB RAM	64 GB internal memory	microSD memory up to 128 GB
Frequencies	2G GSM: 850/900/1800/1900 MHz 3G WCDMA: UMTS B1/2/4/5/8 4G LTE-FDD: B1/2/3/4/5/7/8/12 with MFBI B13/14/17/20/25/26/28A/28B/29/30/66 4G LTE-TDD: B38/B39/B40/B41 4G LTE-SCDMA: B34/B39
Dimensions	size: 155 x 80 x 25 mm	weight: 325 g
Display	4,5" Gorilla Glass® 3. generation	854 x 480 pixels	usable with gloves
Battery	3600 mAh, 3,8 V, 13,68 Wh	replaceable
Camera	13 MP AF rear camera	5 MP FF front camera
Connections	WiFi 2,4 GHz + 5 GHz: IEEE 802.11 a/b/g/n/ac/e/k/r/h with max. 8 connections hotspot Bluetooth® 5 GPS, A-GPS, Glonass, Beidou, Galileo Near Field Communication
Types of protection	IP68 dust-/waterproof	MIL-STD-810G	usable from -20 °C to +60 °C

FURTHER FEATURES

 SOS key for loneworker protection
LWP ready (third party application required, based on country specific regulations)

 13-pin ISM interface for a quick and safe connection of additional devices for a wide range of applications

 Dual micro-SIM

 Amplified loudspeaker

 Magnetic charger port

 Accelerometer, gyroscope, light, magnetic, proximity, pressure sensors

SET CONTENT

Smartphone, Battery, i.safe PROTECTOR 2.0 Type C USB Cable, i.safe PROTECTOR 3.0 USB Magnetic Charger Cable, Power Adapter universal, Screwdriver, Display Protection Foil, Quick Start Manual and Safety Instructions

Please visit our website and you will find more detailed information, as well as an overview of compatible accessories.

WWW.ISAFE-MOBILE.COM

i.safe MOBILE

SIM card - easy to install

GROUP I M1 MINING

› **Very high level of safety in the mining sector with the risk of firedamp**

› **Zero-touch capable**

› **Android™ 13**

‹ IS930.M1 ›

Android Enterprise Recommended

The robust, powerful and particularly dust-proof tablet of the Industry 4.0 generation is ideal for use in the mining industry. The Android Enterprise Recommended device can be used immediately thanks to its zero-touch functionality and is ideally suited for maintenance applications in the IoT environment. The 8-inch display, two freely programmable buttons, a long-life battery, a practical hand strap, leather bag with a shoulder/belt or carry strap system are further highlights.

‹ **IS930.M1** ›

ATEX approval: Mining
Ⓔx I M1 Ex ia I Ma IP64

IECEx approval: Mining
Ex ia I Ma IP64

ANZEx approval: Mining
Ex ia I Ma
-20 °C ≤ Ta ≤ +60 °C

EAC approval: Mining
PB Ex ib I Mb X

Further approvals: SANS (South Africa)

TECHNICAL FEATURES

Operating system	Android™ 13
Processor	SDM660 Octa-Core (Kryo Gold-Quad cores 2,2 GHz; Kryo Silver-Quad cores 1,8 GHz)
Memory	4 GB RAM | 64 GB internal memory | microSD memory up to 512 GB
Frequencies	2G GSM: 850/900/1800/1900 MHz 3G WCDMA: UMTS B1/2/4/5/8 4G LTE-FDD: B1/2/3/4/5/7/8/12 with MFBI B13/14/17/20/25/26/28A/28B/29/30/66 4G LTE-TDD: B38/B39/B40/B41 4G LTE-SCDMA: B34/B39
Dimensions	size: 237 x 156 x 22 mm | weight: 890 g
Display	8" Gorilla Glass® 3. generation | 1200 x 1920 pixels
Battery	8400 mAh
Camera	13 MP AF rear camera | 5 MP FF front camera
Connections	WiFi 2,4 GHz + 5 GHz: IEEE 802.11 a/b/g/n/ac/e/k/r/h with max. 8 connections hotspot Bluetooth® 5 GPS, A-GPS, Glonass, Beidou, Galileo Near Field Communication
Types of protection	IP68 dust-/waterproof | MIL-STD-810H | usable from -20 °C to +60 °C

FURTHER FEATURES

SOS key for loneworker protection
LWP ready (third party application required, based on country specific regulations)

2 freely programmable keys

Usable with gloves

Accelerometer, gyroscope, magnetic, temperature and humidity, proximity sensors

Magnetic charger port

SET CONTENT

Tablet with integrated battery, Hand Strap, i.safe PROTECTOR 2.0 Type C USB Cable, i.safe PROTECTOR 3.0 USB Magnetic Charger Cable, Power Adapter universal, Display Protection Foil, Quick Start Manual and Safety Instructions

Please visit our website and you will find more detailed information, as well as an overview of compatible accessories.