

IS540.M1 Smartphone Set Art. No. 319872



- 5G / Wi-Fi 6 explosion-protected phone for mining industry with high-end chip set
- 6" display, 48 MP camera, replaceable 4400 mAh battery
- Android Enterprise Recommended
- Zero touch capable
- MDM compatible
- Programmable red key (e.g. for lone worker protection/SOS)

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The new 5G smartphone features the latest technology in the explosion protected smartphone segment. With its 6-inch full HD display and a high-end chip set, the smartphone supports a wide range of frequency bands, and its 48 MP main camera produces high-quality images. The high-end processor ensures fast data processing for advanced industrial applications such as predictive maintenance. Since 5G is not the standard everywhere, our portfolio also includes 4G smartphones and other push-button telephones that can be used in many ways with the ISM interface. Other additional modules such as an RSM, PTT headsets, professional barcode scanners and a thermal imaging cameras turn the smartphones into powerful multi-function devices. Our mobile experts will be happy to explain how to best integrate these devices into mobile solutions with other products: [stahl.com">sales.dehm@r-stahl.com](mailto:sales.dehm@r-stahl.com)

Technical Data

General	
Technology	Telephone
Version	Smartphone
Explosion Protection	
Application range	Mining M1, M2
Application range (firedamp protection)	M1 M2
Scope	Mining: EU (CE / ATEX) Mining: Global (IECEX) South Africa (SABS) Australia (RCM)
IECEX certification	EPS 23.0002X
ATEX certification	EPS 23 ATEX 1 012 X
SABS certification	MS/23-0835X
IECEX gas explosion protection	Ex ib IIC T4 Gb
IECEX dust explosion protection	Ex ib IIIC T135°C Db
IECEX Firedamp protection	Ex ia I Ma
ATEX gas explosion protection	Ⓔ II 2G Ex ib IIC T4 Gb
ATEX dust explosion protection	Ⓔ II 2D Ex ib IIIC T135°C Db
ATEX Firedamp protection	I M1 Ex ia I Ma
SABS dust explosion protection	Ex ib IIIC T135°C Db
SABS gas explosion protection	Ex ib IIC T4 Gb
SABS Firedamp protection	Ex ia I Ma

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Electrical Data

Processor type	Qualcomm QCM6490
Main memory	8 GB
Data memory	128 GB int. + SD up to 128 GB
Operating system	Android 14
Mobile standard	2G, 3G, 4G, 5G
Interface medium	802.11 a/b/g/n/ac/ax/e/k/r/v
Optional interface 1	Bluetooth 5.2
Optional interface 2	40 MP camera (rear)
Addition 3/Option box	5 MP front camera
SD card type/size	MicroSD/up to 128 GB
SIM card number	Double SIM
SIM card size	Micro

Display

Display size in inches	6.00
Display size in cm	15.24
Display resolution	FHD 1080x2160 pixels
Touchscreen	Capacitive
Touchscreen material	Gorilla glass corning 3rd gen.
Backlight	LED technology

Ambient Conditions

Ambient temperature	-20 – 60 °C
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Mechanical Data

Degree of protection (IP)	IP68
MIL-standard	810H
Width	85 mm
Height	180 mm
Depth	21 mm
Weight	422 g
Weight	0.93 lb

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.