

Смартфоны серии Ex-Handy 10

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

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Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
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Череповец (8202)49-02-64
Чита (3022)38-34-83
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Ярославль (4852)69-52-93

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Feature phone

Ex-Handy 10

Ex-Handy10-ROW-DZ1AIC-ANDNCM..



- Provisioning of a full-fledged Android phone
- Limiting the functions to those of a classic phone
- Allowing access only to the necessary phone functions
- Adding self-developed ECOM apps, based on SMT suite
- SMT apps do not have any connection to online services
- All data is stored and remains on the phone locally
- Access to the settings menu to allow the user to personalize his phone

Ex-Handy 10 CLASSIC MODE, DZ1 (DIV 1 and Zone 1/21), Android™ 9, no camera, global version



Technical Data

General specifications

Function	The Ex-Handy 10 is full WEA 2.0 compliant and is also supporting WEA 3.0 features / functionality except advanced geo location tagging.
Description	CLASSIC MODE without camera

Hardware

Processor	Qualcomm Snapdragon MSM8909
Working memory	RAM 2 GByte
Internal data memory	16 GByte
Optional data memory	Micro SD flash card up to 16 GByte
Speaker	Forward facing main speaker with Gore® cone
Microphone	Dual-mic solution with three selectable background noise suppression options

Indicators/operating means

Display	Can be operated while wearing gloves Extreme shock and scratch resistant Gorilla® glass
Touchscreen technology	Capacitive multitouch
Screen diagonal	6.6 cm
Key	PTT / Alarm / Power / Multifunction / Volume / Hardware buttons for Android features

Electrical specifications

Battery type	Li-Ion battery 16.3 WH 3.7 V 4400 mAh
Operating duration	LTE standby time: up to 600 h

Communication

Mobile standard	
2G	GSM: 850 MHz, 900 MHz, 1800 MHz, 1900 MHz
3G	UMTS: 850 MHz, 900 MHz, 1700 MHz, 1900 MHz, 2100 MHz
4G	LTE FDD: B1, B2, B3, B4, B5, B7, B8, B11, B12, B13, B20, B21, B25, B26, B28, B66, B71 LTE TDD: B38, B39, B40, B41
WLAN	802.11 a/b/g/n/e/k/r/h (2,4 GHz + 5 GHz)
Bluetooth	Bluetooth® 4.2
GPS sensor	GPS, A-GPS, Glonass, Beidou
NFC	yes
SIM card	1x Nano SIM (4FF)

Software

Operating system	Android™ 9 , Android™ Zero Touch
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Technical Data

Applications	CALCULATOR, CLOCK, CONTACTS, DIALER, eFLASH, eRESET, eSENTINEL, GALLERY, SMS Messenger
SMS/MMS	yes
Ambient conditions	
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Mechanical specifications	
Degree of protection	IP68 , MIL-STD-810G
Connection	7-pins water-proof magnetic USB 2.0 port 3.5 mm jack connection with special ecom mounting solution
Mass	approx. 330 g
Dimensions	
W x H x D	67 mm x 148 mm x 24 mm
Data for application in connection with hazardous areas	
ATEX approval	
ATEX certificate	EPS 19 ATEX 1 015 X
ATEX marking	Ⓔ II 2G Ex ib op is IIC T4 Gb IP64 Ⓔ II 2D Ex ib op is IIIC T120°C Db Ta = -20 °C to +60 °C
International approvals	
CSA approval	
CSA certificate	I.S. Class I, Division 1, Groups A-D; T4 Class II, III, Division 1, Groups E-G; T120°C Ex ib op is IIC T4 Gb / Ex ib op is IIIC T120°C Db CL I, Zone 1, AEx ib op is IIC T4 Gb Zone 21, AEx ib op is IIIC T120°C Db
IECEx approval	
IECEx certificate	IECEx EPS 19.0008X
IECEx marking	Ex ib op is IIC T4 Gb IP64 Ex ib op is IIIC T120°C Db Ta = -20 °C to +60 °C
Approved for	Albania, Australia, Austria, Azerbaijan, Belgium, Bosnia-Herzegovina, Brunei, Bulgaria, Canada, Ceuta, Croatia, Czech Republic, Denmark, Egypt, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, India, Iraq, Ireland, Israel, Italy, Kuwait, Latvia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Malaysia, Malta, Mexico, Montenegro, Myanmar, Netherlands, New Zealand, Norway, Oman, Peru, Philippines, Poland, Portugal, Romania, Saudi Arabia, Serbia, Singapore, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Thailand, Turkey, United Arab Emirates, United Kingdom, Uzbekistan, Vietnam, USA
General information	
Scope of delivery	Ex-Handy 10 Li-Ion battery Charger USB cable Screwdriver Documentation



Feature phone

Ex-Handy 10

Ex-Handy10-ROW-DZ1AIC-ANDN00..



- Replaceable SIM
- Global certificates - a common hardware platform
- Wireless connections such as WWAN, 4G LTE, WLAN and Bluetooth®
- Android™ Enterprise Recommended verified device
- GPS
- NFC technology for wireless applications
- Service contract
- Programmable hardware buttons
- Special buttons for lone worker protection (LWP) applications
- Latest firmware release: Android™ 9

Ex-Handy 10 DZ1 (DIV 1 and Zone 1/21), latest available Android firmware release, no camera, global version



Technical Data

General specifications

Function	The Ex-Handy 10 is full WEA 2.0 compliant and is also supporting WEA 3.0 features / functionality except advanced geo location tagging.
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Hardware

Processor	Qualcomm Snapdragon MSM8909
Working memory	RAM 2 GByte
Internal data memory	16 GByte
Optional data memory	Micro SD flash card up to 16 GByte
Speaker	Forward facing main speaker with Gore® cone
Microphone	Dual-mic solution with three selectable background noise suppression options

Indicators/operating means

Display	Can be operated while wearing gloves Extreme shock and scratch resistant Gorilla® glass
Touchscreen technology	Capacitive multitouch
Screen diagonal	6.6 cm
Key	PTT / Alarm / Power / Multifunction / Volume / Hardware buttons for Android features

Electrical specifications

Battery type	Li-Ion battery 16.3 WH 3.7 V 4400 mAh
Operating duration	LTE standby time: up to 600 h

Communication

Mobile standard	
2G	GSM: 850 MHz, 900 MHz, 1800 MHz, 1900 MHz
3G	UMTS: 850 MHz, 900 MHz, 1700 MHz, 1900 MHz, 2100 MHz
4G	LTE FDD: B1, B2, B3, B4, B5, B7, B8, B11, B12, B13, B20, B21, B25, B26, B28, B66, B71 LTE TDD: B38, B39, B40, B41
WLAN	802.11 a/b/g/n/e/k/r/h (2,4 GHz + 5 GHz)
Bluetooth	Bluetooth® 4.2
GPS sensor	GPS, A-GPS, Glonass, Beidou
NFC	yes
SIM card	1x Nano SIM (4FF)

Software

Technical Data

Operating system	Android™ 9 , Android™ Zero Touch , Google Play
SMS/MMS	yes
Ambient conditions	
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Mechanical specifications	
Degree of protection	IP68 , MIL-STD-810G
Connection	7-pins water-proof magnetic USB 2.0 port 3.5 mm jack connection with special ecom mounting solution
Mass	330 g
Dimensions	
W x H x D	67 mm x 148 mm x 24 mm
Data for application in connection with hazardous areas	
ATEX approval	
ATEX certificate	EPS 19 ATEX 1 015 X
ATEX marking	Ⓔ II 2G Ex ib op is IIC T4 Gb IP64 Ⓔ II 2D Ex ib op is IIIC T120°C Db Ta = -20 °C to +60 °C
International approvals	
CSA approval	
CSA certificate	I.S. Class I, Division 1, Groups A-D; T4 Class II, III, Division 1, Groups E-G; T120°C Ex ib op is IIC T4 Gb / Ex ib op is IIIC T120°C Db CL I, Zone 1, AEx ib op is IIC T4 Gb Zone 21, AEx ib op is IIIC T120°C Db
IECEx approval	
IECEx certificate	IECEx EPS 19.0008X
IECEx marking	Ex ib op is IIC T4 Gb IP64 Ex ib op is IIIC T120°C Db Ta = -20 °C to +60 °C
Approved for	Albania, Australia, Austria, Azerbaijan, Belgium, Bosnia-Herzegovina, Brunei, Bulgaria, Canada, Ceuta, Croatia, Czech Republic, Denmark, Egypt, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, India, Iraq, Ireland, Israel, Italy, Kuwait, Latvia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Malaysia, Malta, Mexico, Montenegro, Myanmar, Netherlands, New Zealand, Norway, Oman, Peru, Philippines, Poland, Portugal, Romania, Saudi Arabia, Serbia, Singapore, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Thailand, Turkey, United Arab Emirates, United Kingdom, Uzbekistan, Vietnam, USA
General information	
Scope of delivery	Ex-Handy 10 Li-Ion battery Charger USB cable Screwdriver Documentation



Feature phone

Ex-Handy 10

Ex-Handy10-ROW-DZ2AIC-ANDN00..



- Replaceable SIM
- Global certificates - a common hardware platform
- Wireless connections such as WWAN, 4G LTE, WLAN and Bluetooth®
- Android™ Enterprise Recommended verified device
- GPS
- NFC technology for wireless applications
- Service contract
- Special buttons for lone worker protection (LWP) applications
- Programmable hardware buttons
- Latest firmware release: Android™ 9

Ex-Handy 10 DZ2 (DIV 2 and Zone 2/22), latest available Android firmware release, no camera, global version



Technical Data

General specifications

Function	The Ex-Handy 10 is full WEA 2.0 compliant and is also supporting WEA 3.0 features / functionality except advanced geo location tagging.
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Hardware

Processor	Qualcomm Snapdragon MSM8909
Working memory	RAM 2 GByte
Internal data memory	16 GByte
Optional data memory	Micro SD flash card up to 16 GByte
Speaker	Forward facing main speaker with Gore® cone
Microphone	Dual-mic solution with three selectable background noise suppression options

Indicators/operating means

Display	Can be operated while wearing gloves Extreme shock and scratch resistant Gorilla® glass
Touchscreen technology	Capacitive multitouch
Screen diagonal	6.6 cm
Key	PTT / Alarm / Power / Multifunction / Volume / Hardware buttons for Android features

Electrical specifications

Battery type	Li-Ion battery 16.3 WH 3.7 V 4400 mAh
Operating duration	LTE standby time: up to 600 h

Communication

Mobile standard	
2G	GSM: 850 MHz, 900 MHz, 1800 MHz, 1900 MHz
3G	UMTS: 850 MHz, 900 MHz, 1700 MHz, 1900 MHz, 2100 MHz
4G	LTE FDD: B1, B2, B3, B4, B5, B7, B8, B11, B12, B13, B20, B21, B25, B26, B28, B66, B71 LTE TDD: B38, B39, B40, B41
WLAN	802.11 a/b/g/n/e/k/r/h (2,4 GHz + 5 GHz)
Bluetooth	Bluetooth® 4.2
GPS sensor	GPS, A-GPS, Glonass, Beidou
NFC	yes
SIM card	1x Nano SIM (4FF)

Software

Technical Data

Operating system	Android™ 9 , Android™ Zero Touch , Google Play
SMS/MMS	yes
Ambient conditions	
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Mechanical specifications	
Degree of protection	IP68 , MIL-STD-810G
Connection	7-pins water-proof magnetic USB 2.0 port 3.5 mm jack connection with special ecom mounting solution
Mass	330 g
Dimensions	
W x H x D	67 mm x 148 mm x 24 mm
Data for application in connection with hazardous areas	
ATEX approval	
ATEX certificate	EPS 19 ATEX 1 016 X
ATEX marking	Ⓔ II 3G Ex ic IIC T4 Gc IP64 Ⓔ II 3D Ex ic IIIC T120°C Dc Ta = -20 °C to +60 °C
International approvals	
CSA approval	
CSA certificate	I.S Class I, Division 2, Groups A-D; T4 Class II, III, Division 2, Groups E-G; T120°C Ex ic IIC T4 Gc / Ex ic IIIC T120°C Dc CL I, Zone 2, AEx ic IIC T4 Gc Zone 22, AEx ic IIIC T120°C Dc
IECEx approval	
IECEx certificate	IECEx EPS 19.0009X
IECEx marking	Ex ic IIC T4 Gc Ex ic IIIC T120°C Dc Ta = -20 °C to +60 °C
Approved for	Albania, Australia, Austria, Azerbaijan, Belgium, Bosnia-Herzegovina, Brunei, Bulgaria, Canada, Ceuta, Croatia, Czech Republic, Denmark, Egypt, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, India, Iraq, Ireland, Israel, Italy, Kuwait, Latvia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Malaysia, Malta, Mexico, Montenegro, Myanmar, Netherlands, New Zealand, Norway, Oman, Peru, Philippines, Poland, Portugal, Romania, Saudi Arabia, Serbia, Singapore, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Thailand, Turkey, United Arab Emirates, United Kingdom, Uzbekistan, Vietnam, USA
General information	
Scope of delivery	Ex-Handy 10 Li-Ion battery Charger USB cable Screwdriver Documentation



Feature phone

Ex-Handy 10

Ex-Handy10-ROW-DZ1AIC-ANDC00..



- Replaceable SIM
- Global certificates - a common hardware platform
- Wireless connections such as WWAN, 4G LTE, WLAN and Bluetooth®
- Android™ Enterprise Recommended verified device
- GPS
- NFC technology for wireless applications
- Service contract
- Programmable hardware buttons
- Special buttons for lone worker protection (LWP) applications
- Latest firmware release: Android™ 9

Ex-Handy 10 DZ1 (DIV 1 and Zone 1/21), latest available Android firmware release, with camera, global version



Technical Data

General specifications

Function	The Ex-Handy 10 is full WEA 2.0 compliant and is also supporting WEA 3.0 features / functionality except advanced geo location tagging.
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Hardware

Processor	Qualcomm Snapdragon MSM8909
Working memory	RAM 2 GByte
Camera	
Main camera	8 MP Autofocus , LED flash
Internal data memory	16 GByte
Optional data memory	Micro SD flash card up to 16 GByte
Speaker	Forward facing main speaker with Gore® cone
Microphone	Dual-mic solution with three selectable background noise suppression options

Indicators/operating means

Display	Can be operated while wearing gloves Extreme shock and scratch resistant Gorilla® glass
Touchscreen technology	Capacitive multitouch
Screen diagonal	6.6 cm
Key	PTT / Alarm / Power / Multifunction / Volume / Hardware buttons for Android features

Electrical specifications

Battery type	Li-Ion battery 16.3 WH 3.7 V 4400 mAh
Operating duration	LTE standby time: up to 600 h

Communication

Mobile standard	
2G	GSM: 850 MHz, 900 MHz, 1800 MHz, 1900 MHz
3G	UMTS: 850 MHz, 900 MHz, 1700 MHz, 1900 MHz, 2100 MHz
4G	LTE FDD: B1, B2, B3, B4, B5, B7, B8, B11, B12, B13, B20, B21, B25, B26, B28, B66, B71 LTE TDD: B38, B39, B40, B41
WLAN	802.11 a/b/g/n/e/k/r/h (2,4 GHz + 5 GHz)
Bluetooth	Bluetooth® 4.2
GPS sensor	GPS, A-GPS, Glonass, Beidou
NFC	yes

Technical Data

SIM card	1x Nano SIM (4FF)
Software	
Operating system	Android™ 9 , Android™ Zero Touch , Google Play
SMS/MMS	yes
Ambient conditions	
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Mechanical specifications	
Degree of protection	IP68 , MIL-STD-810G
Connection	7-pins water-proof magnetic USB 2.0 port 3.5 mm jack connection with special ecom mounting solution
Mass	approx. 330 g
Dimensions	
W x H x D	67 mm x 148 mm x 24 mm
Data for application in connection with hazardous areas	
ATEX approval	
ATEX certificate	EPS 19 ATEX 1 015 X
ATEX marking	Ⓜ II 2G Ex ib op is IIC T4 Gb IP64 Ⓜ II 2D Ex ib op is IIIC T120°C Db Ta = -20 °C to +60 °C
International approvals	
CSA approval	
CSA certificate	I.S. Class I, Division 1, Groups A-D; T4 Class II, III, Division 1, Groups E-G; T120°C Ex ib op is IIC T4 Gb / Ex ib op is IIIC T120°C Db CL I, Zone 1, AEx ib op is IIC T4 Gb Zone 21, AEx ib op is IIIC T120°C Db
IECEX approval	
IECEX certificate	IECEX EPS 19.0008X
IECEX marking	Ex ib op is IIC T4 Gb IP64 Ex ib op is IIIC T120°C Db Ta = -20 °C to +60 °C
Approved for	Albania, Australia, Austria, Azerbaijan, Belgium, Bosnia-Herzegovina, Brunei, Bulgaria, Canada, Ceuta, Croatia, Czech Republic, Denmark, Egypt, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, India, Iraq, Ireland, Israel, Italy, Kuwait, Latvia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Malaysia, Malta, Mexico, Montenegro, Myanmar, Netherlands, New Zealand, Norway, Oman, Peru, Philippines, Poland, Portugal, Romania, Saudi Arabia, Serbia, Singapore, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Thailand, Turkey, United Arab Emirates, United Kingdom, Uzbekistan, Vietnam, USA
General information	
Scope of delivery	Ex-Handy 10 Li-Ion battery Charger USB cable Screwdriver Documentation



Feature phone

Ex-Handy 10

Ex-Handy10-ROW-DZ1ARG-ANDC00NC



- Replaceable SIM
- Global certificates - a common hardware platform
- Wireless connections such as WWAN, 4G LTE, WLAN and Bluetooth®
- Android™ Enterprise Recommended verified device
- GPS
- NFC technology for wireless applications
- Service contract
- Programmable hardware buttons
- Special buttons for lone worker protection (LWP) applications
- Latest firmware release: Android™ 9

Ex-Handy 10 DZ1 (DIV 1 and Zone 1/21), latest available Android firmware release, with camera, without charger, version for Argentina



Technical Data

General specifications

Function	The Ex-Handy 10 is full WEA 2.0 compliant and is also supporting WEA 3.0 features / functionality except advanced geo location tagging.
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Hardware

Processor	Qualcomm Snapdragon MSM8909
Working memory	RAM 2 GByte
Camera	
Main camera	8 MP Autofocus , LED flash
Internal data memory	16 GByte
Optional data memory	Micro SD flash card up to 16 GByte
Speaker	Forward facing main speaker with Gore® cone
Microphone	Dual-mic solution with three selectable background noise suppression options

Indicators/operating means

Display	Can be operated while wearing gloves Extreme shock and scratch resistant Gorilla® glass
Touchscreen technology	Capacitive multitouch
Screen diagonal	6.6 cm
Key	PTT / Alarm / Power / Multifunction / Volume / Hardware buttons for Android features

Electrical specifications

Battery type	Li-Ion battery 16.3 WH 3.7 V 4400 mAh
Operating duration	LTE standby time: up to 600 h

Communication

Mobile standard	
2G	GSM: 850 MHz, 900 MHz, 1800 MHz, 1900 MHz
3G	UMTS: 850 MHz, 900 MHz, 1700 MHz, 1900 MHz, 2100 MHz
4G	LTE FDD: B1, B2, B3, B4, B5, B7, B8, B11, B12, B13, B20, B21, B25, B26, B28, B66, B71 LTE TDD: B38, B39, B40, B41
WLAN	802.11 a/b/g/n/e/k/r/h (2,4 GHz + 5 GHz)
Bluetooth	Bluetooth® 4.2
GPS sensor	GPS, A-GPS, Glonass, Beidou

Technical Data

NFC	yes
SIM card	1x Nano SIM (4FF)
Software	
Operating system	Android™ 9 , Android™ Zero Touch , Google Play
SMS/MMS	yes
Ambient conditions	
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Mechanical specifications	
Degree of protection	IP68 , MIL-STD-810G
Connection	7-pins water-proof magnetic USB 2.0 port 3.5 mm jack connection with special ecom mounting solution
Mass	approx. 330 g
Dimensions	
W x H x D	67 mm x 148 mm x 24 mm
Data for application in connection with hazardous areas	
ATEX approval	
ATEX certificate	EPS 19 ATEX 1 015 X
ATEX marking	Ⓔ II 2G Ex ib op is IIC T4 Gb IP64 Ⓔ II 2D Ex ib op is IIIC T120°C Db Ta = -20 °C to +60 °C
International approvals	
CSA approval	
CSA certificate	I.S. Class I, Division 1, Groups A-D; T4 Class II, III, Division 1, Groups E-G; T120°C Ex ib op is IIC T4 Gb / Ex ib op is IIIC T120°C Db CL I, Zone 1, AEx ib op is IIC T4 Gb Zone 21, AEx ib op is IIIC T120°C Db
IECEx approval	
IECEx certificate	IECEx EPS 19.0008X
IECEx marking	Ex ib op is IIC T4 Gb IP64 Ex ib op is IIIC T120°C Db Ta = -20 °C to +60 °C
Approved for	Argentina
General information	
Scope of delivery	Ex-Handy 10 Li-Ion battery USB cable Screwdriver Documentation



Feature phone

Ex-Handy 10

Ex-Handy10-ROW-DZ2ARG-ANDC00NC



- Replaceable SIM
- Global certificates - a common hardware platform
- Wireless connections such as WWAN, 4G LTE, WLAN and Bluetooth®
- Android™ Enterprise Recommended verified device
- GPS
- NFC technology for wireless applications
- Service contract
- Special buttons for lone worker protection (LWP) applications
- Programmable hardware buttons
- Latest firmware release: Android™ 9

Ex-Handy 10 DZ2 (DIV 2 and Zone 2/22), latest available Android firmware release, with camera, without charger, version for Argentina



Technical Data

General specifications

Function	The Ex-Handy 10 is full WEA 2.0 compliant and is also supporting WEA 3.0 features / functionality except advanced geo location tagging.
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Hardware

Processor	Qualcomm Snapdragon MSM8909
Working memory	RAM 2 GByte
Camera	
Main camera	8 MP Autofocus , LED flash
Internal data memory	16 GByte
Optional data memory	Micro SD flash card up to 16 GByte
Speaker	Forward facing main speaker with Gore® cone
Microphone	Dual-mic solution with three selectable background noise suppression options

Indicators/operating means

Display	Can be operated while wearing gloves Extreme shock and scratch resistant Gorilla® glass
Touchscreen technology	Capacitive multitouch
Screen diagonal	6.6 cm
Key	PTT / Alarm / Power / Multifunction / Volume / Hardware buttons for Android features

Electrical specifications

Battery type	Li-Ion battery 16.3 WH 3.7 V 4400 mAh
Operating duration	LTE standby time: up to 600 h

Communication

Mobile standard	
2G	GSM: 850 MHz, 900 MHz, 1800 MHz, 1900 MHz
3G	UMTS: 850 MHz, 900 MHz, 1700 MHz, 1900 MHz, 2100 MHz
4G	LTE FDD: B1, B2, B3, B4, B5, B7, B8, B11, B12, B13, B20, B21, B25, B26, B28, B66, B71 LTE TDD: B38, B39, B40, B41
WLAN	802.11 a/b/g/n/e/k/r/h (2,4 GHz + 5 GHz)
Bluetooth	Bluetooth® 4.2
GPS sensor	GPS, A-GPS, Glonass, Beidou

Technical Data

NFC	yes
SIM card	1x Nano SIM (4FF)
Software	
Operating system	Android™ 9 , Android™ Zero Touch , Google Play
SMS/MMS	yes
Ambient conditions	
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Mechanical specifications	
Degree of protection	IP68 , MIL-STD-810G
Connection	7-pins water-proof magnetic USB 2.0 port 3.5 mm jack connection with special ecom mounting solution
Mass	330 g
Dimensions	
W x H x D	67 mm x 148 mm x 24 mm
Data for application in connection with hazardous areas	
ATEX approval	
ATEX certificate	EPS 19 ATEX 1 016 X
ATEX marking	Ⓔ II 3G Ex ic IIC T4 Gc IP64 Ⓔ II 3D Ex ic IIIC T120°C Dc Ta = -20 °C to +60 °C
International approvals	
CSA approval	
CSA certificate	I.S Class I, Division 2, Groups A-D; T4 Class II, III, Division 2, Groups E-G; T120°C Ex ic IIC T4 Gc / Ex ic IIIC T120°C Dc CL I, Zone 2, AEx ic IIC T4 Gc Zone 22, AEx ic IIIC T120°C Dc
IECEX approval	
IECEX certificate	IECEX EPS 19.0009X
IECEX marking	Ex ic IIC T4 Gc IP64 Ex ic IIIC T120°C Dc Ta = -20 °C to +60 °C
Approved for	Argentina
General information	
Scope of delivery	Ex-Handy 10 Li-Ion battery USB cable Screwdriver Documentation



Feature phone

Ex-Handy 10

Ex-Handy10-ROW-DZ1CHL-ANDC00..



- Replaceable SIM
- Global certificates - a common hardware platform
- Wireless connections such as WWAN, 4G LTE, WLAN and Bluetooth®
- Android™ Enterprise Recommended verified device
- GPS
- NFC technology for wireless applications
- Service contract
- Programmable hardware buttons
- Special buttons for lone worker protection (LWP) applications
- Latest firmware release: Android™ 9

Ex-Handy 10 DZ1 (DIV 1 and Zone 1/21), latest available Android firmware release, with camera, version for Chile

Technical Data

General specifications

Function	The Ex-Handy 10 is full WEA 2.0 compliant and is also supporting WEA 3.0 features / functionality except advanced geo location tagging.
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Hardware

Processor	Qualcomm Snapdragon MSM8909
Working memory	RAM 2 GByte
Camera	
Main camera	8 MP Autofocus , LED flash
Internal data memory	16 GByte
Optional data memory	Micro SD flash card up to 16 GByte
Speaker	Forward facing main speaker with Gore® cone
Microphone	Dual-mic solution with three selectable background noise suppression options

Indicators/operating means

Display	Can be operated while wearing gloves Extreme shock and scratch resistant Gorilla® glass
Touchscreen technology	Capacitive multitouch
Screen diagonal	6.6 cm
Key	PTT / Alarm / Power / Multifunction / Volume / Hardware buttons for Android features

Electrical specifications

Battery type	Li-Ion battery 16.3 WH 3.7 V 4400 mAh
Operating duration	LTE standby time: up to 600 h

Communication

Mobile standard	
2G	GSM: 850 MHz, 900 MHz, 1800 MHz, 1900 MHz
3G	UMTS: 850 MHz, 900 MHz, 1700 MHz, 1900 MHz, 2100 MHz
4G	LTE FDD: B1, B2, B3, B4, B5, B7, B8, B11, B12, B13, B20, B21, B25, B26, B28, B66, B71 LTE TDD: B38, B39, B40, B41
WLAN	802.11 a/b/g/n/e/k/r/h (2,4 GHz + 5 GHz)
Bluetooth	Bluetooth® 4.2
GPS sensor	GPS, A-GPS, Glonass, Beidou

Technical Data

NFC	yes
SIM card	1x Nano SIM (4FF)
Software	
Operating system	Android™ 9 , Android™ Zero Touch , Google Play
SMS/MMS	yes
Ambient conditions	
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Mechanical specifications	
Degree of protection	IP68 , MIL-STD-810G
Connection	7-pins water-proof magnetic USB 2.0 port 3.5 mm jack connection with special ecom mounting solution
Mass	approx. 330 g
Dimensions	
W x H x D	67 mm x 148 mm x 24 mm
Data for application in connection with hazardous areas	
ATEX approval	
ATEX certificate	EPS 19 ATEX 1 015 X
ATEX marking	Ⓔ II 2G Ex ib op is IIC T4 Gb IP64 Ⓔ II 2D Ex ib op is IIIC T120°C Db Ta = -20 °C to +60 °C
International approvals	
CSA approval	
CSA certificate	I.S. Class I, Division 1, Groups A-D; T4 Class II, III, Division 1, Groups E-G; T120°C Ex ib op is IIC T4 Gb / Ex ib op is IIIC T120°C Db CL I, Zone 1, AEx ib op is IIC T4 Gb Zone 21, AEx ib op is IIIC T120°C Db
IECEX approval	
IECEX certificate	IECEX EPS 19.0008X
IECEX marking	Ex ib op is IIC T4 Gb IP64 Ex ib op is IIIC T120°C Db Ta = -20 °C to +60 °C
INMETRO approval	
INMETRO certificate	TÜV 19.1226 X
INMETRO marking	Ex ib op is IIC T4 Gb IP64 Ex ib op is IIIC T120°C Db
Approved for	Brazil
General information	
Scope of delivery	Ex-Handy 10 Li-Ion battery Charger USB cable Screwdriver Documentation



Feature phone

Ex-Handy 10

Ex-Handy10-ROW-DZ2CHL-ANDC00..



- Replaceable SIM
- Global certificates - a common hardware platform
- Wireless connections such as WWAN, 4G LTE, WLAN and Bluetooth®
- Android™ Enterprise Recommended verified device
- GPS
- NFC technology for wireless applications
- Service contract
- Special buttons for lone worker protection (LWP) applications
- Programmable hardware buttons
- Latest firmware release: Android™ 9

Ex-Handy 10 DZ2 (DIV 2 and Zone 2/22), latest available Android firmware release, with camera, version for Chile

Technical Data

General specifications

Function	The Ex-Handy 10 is full WEA 2.0 compliant and is also supporting WEA 3.0 features / functionality except advanced geo location tagging.
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Hardware

Processor	Qualcomm Snapdragon MSM8909
Working memory	RAM 2 GByte
Camera	
Main camera	8 MP Autofocus , LED flash
Internal data memory	16 GByte
Optional data memory	Micro SD flash card up to 16 GByte
Speaker	Forward facing main speaker with Gore® cone
Microphone	Dual-mic solution with three selectable background noise suppression options

Indicators/operating means

Display	Can be operated while wearing gloves Extreme shock and scratch resistant Gorilla® glass
Touchscreen technology	Capacitive multitouch
Screen diagonal	6.6 cm
Key	PTT / Alarm / Power / Multifunction / Volume / Hardware buttons for Android features

Electrical specifications

Battery type	Li-Ion battery 16.3 WH 3.7 V 4400 mAh
Operating duration	LTE standby time: up to 600 h

Communication

Mobile standard	
2G	GSM: 850 MHz, 900 MHz, 1800 MHz, 1900 MHz
3G	UMTS: 850 MHz, 900 MHz, 1700 MHz, 1900 MHz, 2100 MHz
4G	LTE FDD: B1, B2, B3, B4, B5, B7, B8, B11, B12, B13, B20, B21, B25, B26, B28, B66, B71 LTE TDD: B38, B39, B40, B41
WLAN	802.11 a/b/g/n/e/k/r/h (2,4 GHz + 5 GHz)
Bluetooth	Bluetooth® 4.2
GPS sensor	GPS, A-GPS, Glonass, Beidou

Technical Data

NFC	yes
SIM card	1x Nano SIM (4FF)
Software	
Operating system	Android™ 9 , Android™ Zero Touch , Google Play
SMS/MMS	yes
Ambient conditions	
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Mechanical specifications	
Degree of protection	IP68 , MIL-STD-810G
Connection	7-pins water-proof magnetic USB 2.0 port 3.5 mm jack connection with special ecom mounting solution
Mass	330 g
Dimensions	
W x H x D	67 mm x 148 mm x 24 mm
Data for application in connection with hazardous areas	
ATEX approval	
ATEX certificate	EPS 19 ATEX 1 016 X
ATEX marking	Ⓔ II 3G Ex ic IIC T4 Gc IP64 Ⓔ II 3D Ex ic IIIC T120°C Dc Ta = -20 °C to +60 °C
International approvals	
CSA approval	
CSA certificate	I.S Class I, Division 2, Groups A-D; T4 Class II, III, Division 2, Groups E-G; T120°C Ex ic IIC T4 Gc / Ex ic IIIC T120°C Dc CL I, Zone 2, AEx ic IIC T4 Gc Zone 22, AEx ic IIIC T120°C Dc
IECEX approval	
IECEX certificate	IECEX EPS 19.0009X
IECEX marking	Ex ic IIC T4 Gc IP64 Ex ic IIIC T120°C Dc Ta = -20 °C to +60 °C
INMETRO approval	
INMETRO certificate	TÜV 19.1226 X
INMETRO marking	Ex ic IIC T4 Gc IP64 Ex ic IIIC T120°C Dc
Approved for	Brazil
General information	
Scope of delivery	Ex-Handy 10 Li-Ion battery Charger USB cable Screwdriver Documentation



Feature phone

Ex-Handy 10

Ex-Handy10-ROW-DZ1AIC-ANDCES..



- Replaceable SIM
- Global certificates - a common hardware platform
- Wireless connections such as WWAN, 4G LTE, WLAN and Bluetooth®
- Android™ Enterprise Recommended verified device
- GPS
- NFC technology for wireless applications
- Service contract
- Programmable hardware buttons
- Special buttons for lone worker protection (LWP) applications
- Latest firmware release: Android™ 9

Ex-Handy 10 DZ1 (DIV 1 and Zone 1/21), latest available Android firmware release, with camera, eSENTINEL app, global version



Technical Data

General specifications

Function	The Ex-Handy 10 is full WEA 2.0 compliant and is also supporting WEA 3.0 features / functionality except advanced geo location tagging.
----------	---

Hardware

Processor	Qualcomm Snapdragon MSM8909
Working memory	RAM 2 GByte
Camera	
Main camera	8 MP Autofocus , LED flash
Internal data memory	16 GByte
Optional data memory	Micro SD flash card up to 16 GByte
Speaker	Forward facing main speaker with Gore® cone
Microphone	Dual-mic solution with three selectable background noise suppression options

Indicators/operating means

Display	Can be operated while wearing gloves Extreme shock and scratch resistant Gorilla® glass
Touchscreen technology	Capacitive multitouch
Screen diagonal	6.6 cm
Key	PTT / Alarm / Power / Multifunction / Volume / Hardware buttons for Android features

Electrical specifications

Battery type	Li-Ion battery 16.3 WH 3.7 V 4400 mAh
Operating duration	LTE standby time: up to 600 h

Communication

Mobile standard	
2G	GSM: 850 MHz, 900 MHz, 1800 MHz, 1900 MHz
3G	UMTS: 850 MHz, 900 MHz, 1700 MHz, 1900 MHz, 2100 MHz
4G	LTE FDD: B1, B2, B3, B4, B5, B7, B8, B11, B12, B13, B20, B21, B25, B26, B28, B66, B71 LTE TDD: B38, B39, B40, B41
WLAN	802.11 a/b/g/n/e/k/r/h (2,4 GHz + 5 GHz)
Bluetooth	Bluetooth® 4.2
GPS sensor	GPS, A-GPS, Glonass, Beidou

Technical Data

NFC	yes
SIM card	1x Nano SIM (4FF)
Software	
Operating system	Android™ 9 , Android™ Zero Touch , Google Play
SMS/MMS	yes
Ambient conditions	
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Mechanical specifications	
Degree of protection	IP68 , MIL-STD-810G
Connection	7-pins water-proof magnetic USB 2.0 port 3.5 mm jack connection with special ecom mounting solution
Mass	330 g
Dimensions	
W x H x D	67 mm x 148 mm x 24 mm
Data for application in connection with hazardous areas	
ATEX approval	
ATEX certificate	EPS 19 ATEX 1 015 X
ATEX marking	Ⓜ II 2G Ex ib op is IIC T4 Gb IP64 Ⓜ II 2D Ex ib op is IIIC T120°C Db Ta = -20 °C to +60 °C
International approvals	
CSA approval	
CSA certificate	I.S. Class I, Division 1, Groups A-D; T4 Class II, III, Division 1, Groups E-G; T120°C Ex ib op is IIC T4 Gb / Ex ib op is IIIC T120°C Db CL I, Zone 1, AEx ib op is IIC T4 Gb Zone 21, AEx ib op is IIIC T120°C Db
IECEx approval	
IECEx certificate	IECEx EPS 19.0008X
IECEx marking	Ex ib op is IIC T4 Gb IP64 Ex ib op is IIIC T120°C Db Ta = -20 °C to +60 °C
Approved for	Albania, Australia, Austria, Azerbaijan, Belgium, Bosnia-Herzegovina, Brunei, Bulgaria, Canada, Ceuta, Croatia, Czech Republic, Denmark, Egypt, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, India, Iraq, Ireland, Israel, Italy, Kuwait, Latvia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Malaysia, Malta, Mexico, Montenegro, Myanmar, Netherlands, New Zealand, Norway, Oman, Peru, Philippines, Poland, Portugal, Romania, Saudi Arabia, Serbia, Singapore, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Thailand, Turkey, United Arab Emirates, United Kingdom, Uzbekistan, Vietnam, USA
General information	
Scope of delivery	Ex-Handy 10 Li-Ion battery Charger USB cable Screwdriver Documentation eSENTINEL app



Feature phone

Ex-Handy 10

Ex-Handy10-ROW-DZ1AIC-ANDCEB..



- Replaceable SIM
- Global certificates - a common hardware platform
- Wireless connections such as WWAN, 4G LTE, WLAN and Bluetooth®
- Android™ Enterprise Recommended verified device
- GPS
- NFC technology for wireless applications
- Service contract
- Programmable hardware buttons
- Special buttons for lone worker protection (LWP) applications
- Latest firmware release: Android™ 9

Ex-Handy 10 DZ1 (DIV 1 and Zone 1/21), latest available Android firmware release, with camera, eBARCODE app preinstalled, global version



Technical Data

General specifications

Function	The Ex-Handy 10 is full WEA 2.0 compliant and is also supporting WEA 3.0 features / functionality except advanced geo location tagging.
----------	---

Hardware

Processor	Qualcomm Snapdragon MSM8909
Working memory	RAM 2 GByte
Camera	
Main camera	8 MP Autofocus , LED flash
Internal data memory	16 GByte
Optional data memory	Micro SD flash card up to 16 GByte
Speaker	Forward facing main speaker with Gore® cone
Microphone	Dual-mic solution with three selectable background noise suppression options

Indicators/operating means

Display	Can be operated while wearing gloves Extreme shock and scratch resistant Gorilla® glass
Touchscreen technology	Capacitive multitouch
Screen diagonal	6.6 cm
Key	PTT / Alarm / Power / Multifunction / Volume / Hardware buttons for Android features

Electrical specifications

Battery type	Li-Ion battery 16.3 WH 3.7 V 4400 mAh
Operating duration	LTE standby time: up to 600 h

Communication

Mobile standard	
2G	GSM: 850 MHz, 900 MHz, 1800 MHz, 1900 MHz
3G	UMTS: 850 MHz, 900 MHz, 1700 MHz, 1900 MHz, 2100 MHz
4G	LTE FDD: B1, B2, B3, B4, B5, B7, B8, B11, B12, B13, B20, B21, B25, B26, B28, B66, B71 LTE TDD: B38, B39, B40, B41
WLAN	802.11 a/b/g/n/e/k/r/h (2,4 GHz + 5 GHz)
Bluetooth	Bluetooth® 4.2
GPS sensor	GPS, A-GPS, Glonass, Beidou

Technical Data

NFC	yes
SIM card	1x Nano SIM (4FF)
Software	
Operating system	Android™ 9 , Android™ Zero Touch , Google Play
SMS/MMS	yes
Ambient conditions	
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Mechanical specifications	
Degree of protection	IP68 , MIL-STD-810G
Connection	7-pins water-proof magnetic USB 2.0 port 3.5 mm jack connection with special ecom mounting solution
Mass	330 g
Dimensions	
W x H x D	67 mm x 148 mm x 24 mm
Data for application in connection with hazardous areas	
ATEX approval	
ATEX certificate	EPS 19 ATEX 1 015 X
ATEX marking	Ⓜ II 2G Ex ib op is IIC T4 Gb IP64 Ⓜ II 2D Ex ib op is IIIC T120°C Db Ta = -20 °C to +60 °C
International approvals	
CSA approval	
CSA certificate	I.S. Class I, Division 1, Groups A-D; T4 Class II, III, Division 1, Groups E-G; T120°C Ex ib op is IIC T4 Gb / Ex ib op is IIIC T120°C Db CL I, Zone 1, AEx ib op is IIC T4 Gb Zone 21, AEx ib op is IIIC T120°C Db
IECEX approval	
IECEX certificate	IECEX EPS 19.0008X
IECEX marking	Ex ib op is IIC T4 Gb IP64 Ex ib op is IIIC T120°C Db Ta = -20 °C to +60 °C
Approved for	Albania, Australia, Austria, Azerbaijan, Belgium, Bosnia-Herzegovina, Brunei, Bulgaria, Canada, Ceuta, Croatia, Czech Republic, Denmark, Egypt, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, India, Iraq, Ireland, Israel, Italy, Kuwait, Latvia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Malaysia, Malta, Mexico, Montenegro, Myanmar, Netherlands, New Zealand, Norway, Oman, Peru, Philippines, Poland, Portugal, Romania, Saudi Arabia, Serbia, Singapore, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Thailand, Turkey, United Arab Emirates, United Kingdom, Uzbekistan, Vietnam, USA
General information	
Scope of delivery	Ex-Handy 10 Li-Ion battery Charger USB cable Screwdriver Documentation eBARCODE app preinstalled



Feature phone

Ex-Handy 10

Ex-Handy10-ROW-DZ2AIC-ANDCEB..



- Replaceable SIM
- Global certificates - a common hardware platform
- Wireless connections such as WWAN, 4G LTE, WLAN and Bluetooth®
- Android™ Enterprise Recommended verified device
- GPS
- NFC technology for wireless applications
- Service contract
- Special buttons for lone worker protection (LWP) applications
- Programmable hardware buttons
- Latest firmware release: Android™ 9

Ex-Handy 10 DZ2 (DIV 2 and Zone 2/22), latest available Android firmware release, with camera, eBARCODE app preinstalled, global version



Technical Data

General specifications

Function	The Ex-Handy 10 is full WEA 2.0 compliant and is also supporting WEA 3.0 features / functionality except advanced geo location tagging.
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Hardware

Processor	Qualcomm Snapdragon MSM8909
Working memory	RAM 2 GByte
Camera	
Main camera	8 MP Autofocus , LED flash
Internal data memory	16 GByte
Optional data memory	Micro SD flash card up to 16 GByte
Speaker	Forward facing main speaker with Gore® cone
Microphone	Dual-mic solution with three selectable background noise suppression options

Indicators/operating means

Display	Can be operated while wearing gloves Extreme shock and scratch resistant Gorilla® glass
Touchscreen technology	Capacitive multitouch
Screen diagonal	6.6 cm
Key	PTT / Alarm / Power / Multifunction / Volume / Hardware buttons for Android features

Electrical specifications

Battery type	Li-Ion battery 16.3 WH 3.7 V 4400 mAh
Operating duration	LTE standby time: up to 600 h

Communication

Mobile standard	
2G	GSM: 850 MHz, 900 MHz, 1800 MHz, 1900 MHz
3G	UMTS: 850 MHz, 900 MHz, 1700 MHz, 1900 MHz, 2100 MHz
4G	LTE FDD: B1, B2, B3, B4, B5, B7, B8, B11, B12, B13, B20, B21, B25, B26, B28, B66, B71 LTE TDD: B38, B39, B40, B41
WLAN	802.11 a/b/g/n/e/k/r/h (2,4 GHz + 5 GHz)
Bluetooth	Bluetooth® 4.2
GPS sensor	GPS, A-GPS, Glonass, Beidou

Technical Data

NFC	yes
SIM card	1x Nano SIM (4FF)
Software	
Operating system	Android™ 9 , Android™ Zero Touch , Google Play
SMS/MMS	yes
Ambient conditions	
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Mechanical specifications	
Degree of protection	IP68 , MIL-STD-810G
Connection	7-pins water-proof magnetic USB 2.0 port 3.5 mm jack connection with special ecom mounting solution
Mass	330 g
Dimensions	
W x H x D	67 mm x 148 mm x 24 mm
Data for application in connection with hazardous areas	
ATEX approval	
ATEX certificate	EPS 19 ATEX 1 016 X
ATEX marking	Ⓜ II 3G Ex ic IIC T4 Gc IP64 Ⓜ II 3D Ex ic IIIC T120°C Dc Ta = -20 °C to +60 °C
International approvals	
CSA approval	
CSA certificate	I.S Class I, Division 2, Groups A-D; T4 Class II, III, Division 2, Groups E-G; T120°C Ex ic IIC T4 Gc / Ex ic IIIC T120°C Dc CL I, Zone 2, AEx ic IIC T4 Gc Zone 22, AEx ic IIIC T120°C Dc
IECEX approval	
IECEX certificate	IECEX EPS 19.0009X
IECEX marking	Ex ic IIC T4 Gc IP64 Ex ic IIIC T120°C Dc Ta = -20 °C to +60 °C
Approved for	Albania, Australia, Austria, Azerbaijan, Belgium, Bosnia-Herzegovina, Brunei, Bulgaria, Canada, Ceuta, Croatia, Czech Republic, Denmark, Egypt, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, India, Iraq, Ireland, Israel, Italy, Kuwait, Latvia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Malaysia, Malta, Mexico, Montenegro, Myanmar, Netherlands, New Zealand, Norway, Oman, Peru, Philippines, Poland, Portugal, Romania, Saudi Arabia, Serbia, Singapore, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Thailand, Turkey, United Arab Emirates, United Kingdom, Uzbekistan, Vietnam, USA
General information	
Scope of delivery	Ex-Handy 10 Li-Ion battery Charger USB cable Screwdriver Documentation eBARCODE app preinstalled



Feature phone

Ex-Handy 10

Ex-Handy10-ROW-DZ1QAT-ANDC00..



- Replaceable SIM
- Global certificates - a common hardware platform
- Wireless connections such as WWAN, 4G LTE, WLAN and Bluetooth®
- Android™ Enterprise Recommended verified device
- GPS
- NFC technology for wireless applications
- Service contract
- Programmable hardware buttons
- Special buttons for lone worker protection (LWP) applications
- Latest firmware release: Android™ 9

Ex-Handy 10 DZ1 (DIV 1 and Zone 1/21), latest available Android firmware release, with camera, version for Qatar



Technical Data

General specifications

Function	The Ex-Handy 10 is full WEA 2.0 compliant and is also supporting WEA 3.0 features / functionality except advanced geo location tagging.
----------	---

Hardware

Processor	Qualcomm Snapdragon MSM8909
Working memory	RAM 2 GByte
Camera	
Main camera	8 MP Autofocus , LED flash
Internal data memory	16 GByte
Optional data memory	Micro SD flash card up to 16 GByte
Speaker	Forward facing main speaker with Gore® cone
Microphone	Dual-mic solution with three selectable background noise suppression options

Indicators/operating means

Display	Can be operated while wearing gloves Extreme shock and scratch resistant Gorilla® glass
Touchscreen technology	Capacitive multitouch
Screen diagonal	6.6 cm
Key	PTT / Alarm / Power / Multifunction / Volume / Hardware buttons for Android features

Electrical specifications

Battery type	Li-Ion battery 16.3 WH 3.7 V 4400 mAh
Operating duration	LTE standby time: up to 600 h

Communication

Mobile standard	
2G	GSM: 850 MHz, 900 MHz, 1800 MHz, 1900 MHz
3G	UMTS: 850 MHz, 900 MHz, 1700 MHz, 1900 MHz, 2100 MHz
4G	LTE FDD: B1, B2, B3, B4, B5, B7, B8, B11, B12, B13, B20, B21, B25, B26, B28, B66, B71 LTE TDD: B38, B39, B40, B41
WLAN	802.11 a/b/g/n/e/k/r/h (2,4 GHz + 5 GHz)
Bluetooth	Bluetooth® 4.2
GPS sensor	GPS, A-GPS, Glonass, Beidou

Technical Data

NFC	yes
SIM card	1x Nano SIM (4FF)
Software	
Operating system	Android™ 9 , Android™ Zero Touch , Google Play
SMS/MMS	yes
Ambient conditions	
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Mechanical specifications	
Degree of protection	IP68 , MIL-STD-810G
Connection	7-pins water-proof magnetic USB 2.0 port 3.5 mm jack connection with special ecom mounting solution
Mass	approx. 330 g
Dimensions	
W x H x D	67 mm x 148 mm x 24 mm
Data for application in connection with hazardous areas	
ATEX approval	
ATEX certificate	EPS 19 ATEX 1 015 X
ATEX marking	Ⓔ II 2G Ex ib op is IIC T4 Gb IP64 Ⓔ II 2D Ex ib op is IIIC T120°C Db Ta = -20 °C to +60 °C
International approvals	
CSA approval	
CSA certificate	I.S. Class I, Division 1, Groups A-D; T4 Class II, III, Division 1, Groups E-G; T120°C Ex ib op is IIC T4 Gb / Ex ib op is IIIC T120°C Db CL I, Zone 1, AEx ib op is IIC T4 Gb Zone 21, AEx ib op is IIIC T120°C Db
IECEX approval	
IECEX certificate	IECEX EPS 19.0008X
IECEX marking	Ex ib op is IIC T4 Gb IP64 Ex ib op is IIIC T120°C Db Ta = -20 °C to +60 °C
Approved for	Qatar
General information	
Scope of delivery	Ex-Handy 10 Li-Ion battery Charger USB cable Screwdriver Documentation



Feature phone

Ex-Handy 10

Ex-Handy10-ROW-DZ2QAT-ANDC00..



- Replaceable SIM
- Global certificates - a common hardware platform
- Wireless connections such as WWAN, 4G LTE, WLAN and Bluetooth®
- Android™ Enterprise Recommended verified device
- GPS
- NFC technology for wireless applications
- Service contract
- Special buttons for lone worker protection (LWP) applications
- Programmable hardware buttons
- Latest firmware release: Android™ 9

Ex-Handy 10 DZ2 (DIV 2 and Zone 2/22), latest available Android firmware release, with camera, version for Qatar



Technical Data

General specifications

Function	The Ex-Handy 10 is full WEA 2.0 compliant and is also supporting WEA 3.0 features / functionality except advanced geo location tagging.
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Hardware

Processor	Qualcomm Snapdragon MSM8909
Working memory	RAM 2 GByte
Camera	
Main camera	8 MP Autofocus , LED flash
Internal data memory	16 GByte
Optional data memory	Micro SD flash card up to 16 GByte
Speaker	Forward facing main speaker with Gore® cone
Microphone	Dual-mic solution with three selectable background noise suppression options

Indicators/operating means

Display	Can be operated while wearing gloves Extreme shock and scratch resistant Gorilla® glass
Touchscreen technology	Capacitive multitouch
Screen diagonal	6.6 cm
Key	PTT / Alarm / Power / Multifunction / Volume / Hardware buttons for Android features

Electrical specifications

Battery type	Li-Ion battery 16.3 WH 3.7 V 4400 mAh
Operating duration	LTE standby time: up to 600 h

Communication

Mobile standard	
2G	GSM: 850 MHz, 900 MHz, 1800 MHz, 1900 MHz
3G	UMTS: 850 MHz, 900 MHz, 1700 MHz, 1900 MHz, 2100 MHz
4G	LTE FDD: B1, B2, B3, B4, B5, B7, B8, B11, B12, B13, B20, B21, B25, B26, B28, B66, B71 LTE TDD: B38, B39, B40, B41
WLAN	802.11 a/b/g/n/e/k/r/h (2,4 GHz + 5 GHz)
Bluetooth	Bluetooth® 4.2
GPS sensor	GPS, A-GPS, Glonass, Beidou

Technical Data

NFC	yes
SIM card	1x Nano SIM (4FF)
Software	
Operating system	Android™ 9 , Android™ Zero Touch , Google Play
SMS/MMS	yes
Ambient conditions	
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Mechanical specifications	
Degree of protection	IP68 , MIL-STD-810G
Connection	7-pins water-proof magnetic USB 2.0 port 3.5 mm jack connection with special ecom mounting solution
Mass	330 g
Dimensions	
W x H x D	67 mm x 148 mm x 24 mm
Data for application in connection with hazardous areas	
ATEX approval	
ATEX certificate	EPS 19 ATEX 1 016 X
ATEX marking	Ⓔ II 3G Ex ic IIC T4 Gc IP64 Ⓔ II 3D Ex ic IIIC T120°C Dc Ta = -20 °C to +60 °C
International approvals	
CSA approval	
CSA certificate	I.S Class I, Division 2, Groups A-D; T4 Class II, III, Division 2, Groups E-G; T120°C Ex ic IIC T4 Gc / Ex ic IIIC T120°C Dc CL I, Zone 2, AEx ic IIC T4 Gc Zone 22, AEx ic IIIC T120°C Dc
IECEx approval	
IECEx certificate	IECEx EPS 19.0009X
IECEx marking	Ex ic IIC T4 Gc IP64 Ex ic IIIC T120°C Dc Ta = -20 °C to +60 °C
Approved for	Qatar
General information	
Scope of delivery	Ex-Handy 10 Li-Ion battery Charger USB cable Screwdriver Documentation



Feature phone

Ex-Handy 10

Ex-Handy10-ROW-DZ1CHN-ANDC00..



- Replaceable SIM
- Global certificates - a common hardware platform
- Wireless connections such as WWAN, 4G LTE, WLAN and Bluetooth®
- Android™ Enterprise Recommended verified device
- GPS
- NFC technology for wireless applications
- Service contract
- Programmable hardware buttons
- Special buttons for lone worker protection (LWP) applications
- Latest firmware release: Android™ 9

Ex-Handy 10 DZ1 (DIV 1 and Zone 1/21), latest available Android firmware release, with camera, version for China



Technical Data

General specifications

Function	The Ex-Handy 10 is full WEA 2.0 compliant and is also supporting WEA 3.0 features / functionality except advanced geo location tagging.
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Hardware

Processor	Qualcomm Snapdragon MSM8909
Working memory	RAM 2 GByte
Camera	
Main camera	8 MP Autofocus , LED flash
Internal data memory	16 GByte
Optional data memory	Micro SD flash card up to 16 GByte
Speaker	Forward facing main speaker with Gore® cone
Microphone	Dual-mic solution with three selectable background noise suppression options

Indicators/operating means

Display	Can be operated while wearing gloves Extreme shock and scratch resistant Gorilla® glass
Touchscreen technology	Capacitive multitouch
Screen diagonal	6.6 cm
Key	PTT / Alarm / Power / Multifunction / Volume / Hardware buttons for Android features

Electrical specifications

Battery type	Li-Ion battery 16.3 WH 3.7 V 4400 mAh
Operating duration	LTE standby time: up to 600 h

Communication

Mobile standard	
2G	GSM: 850 MHz, 900 MHz, 1800 MHz, 1900 MHz
3G	UMTS: 850 MHz, 900 MHz, 1700 MHz, 1900 MHz, 2100 MHz
4G	LTE FDD: B1, B2, B3, B4, B5, B7, B8, B11, B12, B13, B20, B21, B25, B26, B28, B66, B71 LTE TDD: B38, B39, B40, B41
WLAN	802.11 a/b/g/n/e/k/r/h (2,4 GHz + 5 GHz)
Bluetooth	Bluetooth® 4.2
GPS sensor	GPS, A-GPS, Glonass, Beidou

Technical Data

NFC	yes
SIM card	1x Nano SIM (4FF)
Software	
Operating system	Android™ 9 , Android™ Zero Touch , Google Play
SMS/MMS	yes
Ambient conditions	
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Mechanical specifications	
Degree of protection	IP68 , MIL-STD-810G
Connection	7-pins water-proof magnetic USB 2.0 port 3.5 mm jack connection with special ecom mounting solution
Mass	approx. 330 g
Dimensions	
W x H x D	67 mm x 148 mm x 24 mm
International approvals	
CSA approval	
CSA certificate	I.S. Class I, Division 1, Groups A-D; T4 Class II, III, Division 1, Groups E-G; T120°C Ex ib op is IIC T4 Gb / Ex ib op is IIIC T120°C Db CL I, Zone 1, AEx ib op is IIC T4 Gb Zone 21, AEx ib op is IIIC T120°C Db
NEPSI approval	
NEPSI certificate	GYJ19.1281X
NEPSI marking	Ex ib op is IIC T4 Gb Ta = -20 °C to +60 °C
Approved for	China
General information	
Scope of delivery	Ex-Handy 10 Li-Ion battery Charger USB cable Screwdriver Documentation



Feature phone

Ex-Handy 10

Ex-Handy10-ROW-DZ1BRA-ANDC00..



- Replaceable SIM
- Global certificates - a common hardware platform
- Wireless connections such as WWAN, 4G LTE, WLAN and Bluetooth®
- Android™ Enterprise Recommended verified device
- GPS
- NFC technology for wireless applications
- Service contract
- Programmable hardware buttons
- Special buttons for lone worker protection (LWP) applications
- Latest firmware release: Android™ 9

Ex-Handy 10 DZ1 (DIV 1 and Zone 1/21), latest available Android firmware release, with camera, version for Brazil

Technical Data

General specifications

Function	The Ex-Handy 10 is full WEA 2.0 compliant and is also supporting WEA 3.0 features / functionality except advanced geo location tagging.
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Hardware

Processor	Qualcomm Snapdragon MSM8909
Working memory	RAM 2 GByte
Camera	
Main camera	8 MP Autofocus , LED flash
Internal data memory	16 GByte
Optional data memory	Micro SD flash card up to 16 GByte
Speaker	Forward facing main speaker with Gore® cone
Microphone	Dual-mic solution with three selectable background noise suppression options

Indicators/operating means

Display	Can be operated while wearing gloves Extreme shock and scratch resistant Gorilla® glass
Touchscreen technology	Capacitive multitouch
Screen diagonal	6.6 cm
Key	PTT / Alarm / Power / Multifunction / Volume / Hardware buttons for Android features

Electrical specifications

Battery type	Li-Ion battery 16.3 WH 3.7 V 4400 mAh
Operating duration	LTE standby time: up to 600 h

Communication

Mobile standard	
2G	GSM: 850 MHz, 900 MHz, 1800 MHz, 1900 MHz
3G	UMTS: 850 MHz, 900 MHz, 1700 MHz, 1900 MHz, 2100 MHz
4G	LTE FDD: B1, B2, B3, B4, B5, B7, B8, B11, B12, B13, B20, B21, B25, B26, B28, B66, B71 LTE TDD: B38, B39, B40, B41
WLAN	802.11 a/b/g/n/e/k/r/h (2,4 GHz + 5 GHz)
Bluetooth	Bluetooth® 4.2
GPS sensor	GPS, A-GPS, Glonass, Beidou

Technical Data

NFC	yes
SIM card	1x Nano SIM (4FF)
Software	
Operating system	Android™ 9 , Android™ Zero Touch , Google Play
SMS/MMS	yes
Ambient conditions	
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Mechanical specifications	
Degree of protection	IP68 , MIL-STD-810G
Connection	7-pins water-proof magnetic USB 2.0 port 3.5 mm jack connection with special ecom mounting solution
Mass	approx. 330 g
Dimensions	
W x H x D	67 mm x 148 mm x 24 mm
Data for application in connection with hazardous areas	
ATEX approval	
ATEX certificate	EPS 19 ATEX 1 015 X
ATEX marking	Ⓔ II 2G Ex ib op is IIC T4 Gb IP64 Ⓔ II 2D Ex ib op is IIIC T120°C Db Ta = -20 °C to +60 °C
International approvals	
CSA approval	
CSA certificate	I.S. Class I, Division 1, Groups A-D; T4 Class II, III, Division 1, Groups E-G; T120°C Ex ib op is IIC T4 Gb / Ex ib op is IIIC T120°C Db CL I, Zone 1, AEx ib op is IIC T4 Gb Zone 21, AEx ib op is IIIC T120°C Db
IECEX approval	
IECEX certificate	IECEX EPS 19.0008X
IECEX marking	Ex ib op is IIC T4 Gb IP64 Ex ib op is IIIC T120°C Db Ta = -20 °C to +60 °C
INMETRO approval	
INMETRO certificate	TÜV 19.1226 X
INMETRO marking	Ex ib op is IIC T4 Gb IP64 Ex ib op is IIIC T120°C Db
Approved for	Brazil
General information	
Scope of delivery	Ex-Handy 10 Li-Ion battery Charger USB cable Screwdriver Documentation



Feature phone

Ex-Handy 10

Ex-Handy10-ROW-DZ2BRA-ANDC00..



- Replaceable SIM
- Global certificates - a common hardware platform
- Wireless connections such as WWAN, 4G LTE, WLAN and Bluetooth®
- Android™ Enterprise Recommended verified device
- GPS
- NFC technology for wireless applications
- Service contract
- Special buttons for lone worker protection (LWP) applications
- Programmable hardware buttons
- Latest firmware release: Android™ 9

Ex-Handy 10 DZ2 (DIV 2 and Zone 2/22), latest available Android firmware release, with camera, version for Brazil

Technical Data

General specifications

Function	The Ex-Handy 10 is full WEA 2.0 compliant and is also supporting WEA 3.0 features / functionality except advanced geo location tagging.
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Hardware

Processor	Qualcomm Snapdragon MSM8909
Working memory	RAM 2 GByte
Camera	
Main camera	8 MP Autofocus , LED flash
Internal data memory	16 GByte
Optional data memory	Micro SD flash card up to 16 GByte
Speaker	Forward facing main speaker with Gore® cone
Microphone	Dual-mic solution with three selectable background noise suppression options

Indicators/operating means

Display	Can be operated while wearing gloves Extreme shock and scratch resistant Gorilla® glass
Touchscreen technology	Capacitive multitouch
Screen diagonal	6.6 cm
Key	PTT / Alarm / Power / Multifunction / Volume / Hardware buttons for Android features

Electrical specifications

Battery type	Li-Ion battery 16.3 WH 3.7 V 4400 mAh
Operating duration	LTE standby time: up to 600 h

Communication

Mobile standard	
2G	GSM: 850 MHz, 900 MHz, 1800 MHz, 1900 MHz
3G	UMTS: 850 MHz, 900 MHz, 1700 MHz, 1900 MHz, 2100 MHz
4G	LTE FDD: B1, B2, B3, B4, B5, B7, B8, B11, B12, B13, B20, B21, B25, B26, B28, B66, B71 LTE TDD: B38, B39, B40, B41
WLAN	802.11 a/b/g/n/e/k/r/h (2,4 GHz + 5 GHz)
Bluetooth	Bluetooth® 4.2
GPS sensor	GPS, A-GPS, Glonass, Beidou

Technical Data

NFC	yes
SIM card	1x Nano SIM (4FF)
Software	
Operating system	Android™ 9 , Android™ Zero Touch , Google Play
SMS/MMS	yes
Ambient conditions	
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Mechanical specifications	
Degree of protection	IP68 , MIL-STD-810G
Connection	7-pins water-proof magnetic USB 2.0 port 3.5 mm jack connection with special ecom mounting solution
Mass	330 g
Dimensions	
W x H x D	67 mm x 148 mm x 24 mm
Data for application in connection with hazardous areas	
ATEX approval	
ATEX certificate	EPS 19 ATEX 1 016 X
ATEX marking	Ⓔ II 3G Ex ic IIC T4 Gc IP64 Ⓔ II 3D Ex ic IIIC T120°C Dc Ta = -20 °C to +60 °C
International approvals	
CSA approval	
CSA certificate	I.S Class I, Division 2, Groups A-D; T4 Class II, III, Division 2, Groups E-G; T120°C Ex ic IIC T4 Gc / Ex ic IIIC T120°C Dc CL I, Zone 2, AEx ic IIC T4 Gc Zone 22, AEx ic IIIC T120°C Dc
IECEX approval	
IECEX certificate	IECEX EPS 19.0009X
IECEX marking	Ex ic IIC T4 Gc IP64 Ex ic IIIC T120°C Dc Ta = -20 °C to +60 °C
INMETRO approval	
INMETRO certificate	TÜV 19.1226 X
INMETRO marking	Ex ic IIC T4 Gc IP64 Ex ic IIIC T120°C Dc
Approved for	Brazil
General information	
Scope of delivery	Ex-Handy 10 Li-Ion battery Charger USB cable Screwdriver Documentation



Feature phone

Ex-Handy 10

Ex-Handy10-ROW-DZ1COL-ANDC00..



- Replaceable SIM
- Global certificates - a common hardware platform
- Wireless connections such as WWAN, 4G LTE, WLAN and Bluetooth®
- Android™ Enterprise Recommended verified device
- GPS
- NFC technology for wireless applications
- Service contract
- Programmable hardware buttons
- Special buttons for lone worker protection (LWP) applications
- Latest firmware release: Android™ 9

Ex-Handy 10 DZ1 (DIV 1 and Zone 1/21), latest available Android firmware release, with camera, version for Colombia



Technical Data

General specifications

Function	The Ex-Handy 10 is full WEA 2.0 compliant and is also supporting WEA 3.0 features / functionality except advanced geo location tagging.
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Hardware

Processor	Qualcomm Snapdragon MSM8909
Working memory	RAM 2 GByte
Camera	
Main camera	8 MP Autofocus , LED flash
Internal data memory	16 GByte
Optional data memory	Micro SD flash card up to 16 GByte
Speaker	Forward facing main speaker with Gore® cone
Microphone	Dual-mic solution with three selectable background noise suppression options

Indicators/operating means

Display	Can be operated while wearing gloves Extreme shock and scratch resistant Gorilla® glass
Touchscreen technology	Capacitive multitouch
Screen diagonal	6.6 cm
Key	PTT / Alarm / Power / Multifunction / Volume / Hardware buttons for Android features

Electrical specifications

Battery type	Li-Ion battery 16.3 WH 3.7 V 4400 mAh
Operating duration	LTE standby time: up to 600 h

Communication

Mobile standard	
2G	GSM: 850 MHz, 900 MHz, 1800 MHz, 1900 MHz
3G	UMTS: 850 MHz, 900 MHz, 1700 MHz, 1900 MHz, 2100 MHz
4G	LTE FDD: B1, B2, B3, B4, B5, B7, B8, B11, B12, B13, B20, B21, B25, B26, B28, B66, B71 LTE TDD: B38, B39, B40, B41
WLAN	802.11 a/b/g/n/e/k/r/h (2,4 GHz + 5 GHz)
Bluetooth	Bluetooth® 4.2
GPS sensor	GPS, A-GPS, Glonass, Beidou

Technical Data

NFC	yes
SIM card	1x Nano SIM (4FF)
Software	
Operating system	Android™ 9 , Android™ Zero Touch , Google Play
SMS/MMS	yes
Ambient conditions	
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Mechanical specifications	
Degree of protection	IP68 , MIL-STD-810G
Connection	7-pins water-proof magnetic USB 2.0 port 3.5 mm jack connection with special ecom mounting solution
Mass	approx. 330 g
Dimensions	
W x H x D	67 mm x 148 mm x 24 mm
Data for application in connection with hazardous areas	
ATEX approval	
ATEX certificate	EPS 19 ATEX 1 015 X
ATEX marking	Ⓔ II 2G Ex ib op is IIC T4 Gb IP64 Ⓔ II 2D Ex ib op is IIIC T120°C Db Ta = -20 °C to +60 °C
International approvals	
CSA approval	
CSA certificate	I.S. Class I, Division 1, Groups A-D; T4 Class II, III, Division 1, Groups E-G; T120°C Ex ib op is IIC T4 Gb / Ex ib op is IIIC T120°C Db CL I, Zone 1, AEx ib op is IIC T4 Gb Zone 21, AEx ib op is IIIC T120°C Db
IECEX approval	
IECEX certificate	IECEX EPS 19.0008X
IECEX marking	Ex ib op is IIC T4 Gb IP64 Ex ib op is IIIC T120°C Db Ta = -20 °C to +60 °C
Approved for	Colombia
General information	
Scope of delivery	Ex-Handy 10 Li-Ion battery Charger USB cable Screwdriver Documentation



Feature phone

Ex-Handy 10

Ex-Handy10-ROW-DZ2COL-ANDC00..



- Replaceable SIM
- Global certificates - a common hardware platform
- Wireless connections such as WWAN, 4G LTE, WLAN and Bluetooth®
- Android™ Enterprise Recommended verified device
- GPS
- NFC technology for wireless applications
- Service contract
- Special buttons for lone worker protection (LWP) applications
- Programmable hardware buttons
- Latest firmware release: Android™ 9

Ex-Handy 10 DZ2 (DIV 2 and Zone 2/22), latest available Android firmware release, with camera, version for Colombia



Technical Data

General specifications

Function	The Ex-Handy 10 is full WEA 2.0 compliant and is also supporting WEA 3.0 features / functionality except advanced geo location tagging.
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Hardware

Processor	Qualcomm Snapdragon MSM8909
Working memory	RAM 2 GByte
Camera	
Main camera	8 MP Autofocus , LED flash
Internal data memory	16 GByte
Optional data memory	Micro SD flash card up to 16 GByte
Speaker	Forward facing main speaker with Gore® cone
Microphone	Dual-mic solution with three selectable background noise suppression options

Indicators/operating means

Display	Can be operated while wearing gloves Extreme shock and scratch resistant Gorilla® glass
Touchscreen technology	Capacitive multitouch
Screen diagonal	6.6 cm
Key	PTT / Alarm / Power / Multifunction / Volume / Hardware buttons for Android features

Electrical specifications

Battery type	Li-Ion battery 16.3 WH 3.7 V 4400 mAh
Operating duration	LTE standby time: up to 600 h

Communication

Mobile standard	
2G	GSM: 850 MHz, 900 MHz, 1800 MHz, 1900 MHz
3G	UMTS: 850 MHz, 900 MHz, 1700 MHz, 1900 MHz, 2100 MHz
4G	LTE FDD: B1, B2, B3, B4, B5, B7, B8, B11, B12, B13, B20, B21, B25, B26, B28, B66, B71 LTE TDD: B38, B39, B40, B41
WLAN	802.11 a/b/g/n/e/k/r/h (2,4 GHz + 5 GHz)
Bluetooth	Bluetooth® 4.2
GPS sensor	GPS, A-GPS, Glonass, Beidou

Technical Data

NFC	yes
SIM card	1x Nano SIM (4FF)
Software	
Operating system	Android™ 9 , Android™ Zero Touch , Google Play
SMS/MMS	yes
Ambient conditions	
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Mechanical specifications	
Degree of protection	IP68 , MIL-STD-810G
Connection	7-pins water-proof magnetic USB 2.0 port 3.5 mm jack connection with special ecom mounting solution
Mass	330 g
Dimensions	
W x H x D	67 mm x 148 mm x 24 mm
Data for application in connection with hazardous areas	
ATEX approval	
ATEX certificate	EPS 19 ATEX 1 016 X
ATEX marking	Ⓔ II 3G Ex ic IIC T4 Gc IP64 Ⓔ II 3D Ex ic IIIC T120°C Dc Ta = -20 °C to +60 °C
International approvals	
CSA approval	
CSA certificate	I.S Class I, Division 2, Groups A-D; T4 Class II, III, Division 2, Groups E-G; T120°C Ex ic IIC T4 Gc / Ex ic IIIC T120°C Dc CL I, Zone 2, AEx ic IIC T4 Gc Zone 22, AEx ic IIIC T120°C Dc
IECEX approval	
IECEX certificate	IECEX EPS 19.0009X
IECEX marking	Ex ic IIC T4 Gc IP64 Ex ic IIIC T120°C Dc Ta = -20 °C to +60 °C
Approved for	Colombia
General information	
Scope of delivery	Ex-Handy 10 Li-Ion battery Charger USB cable Screwdriver Documentation



Feature phone

Ex-Handy 10

Ex-Handy10-ROW-DZ2CHN-ANDC00..



- Replaceable SIM
- Global certificates - a common hardware platform
- Wireless connections such as WWAN, 4G LTE, WLAN and Bluetooth®
- Android™ Enterprise Recommended verified device
- GPS
- NFC technology for wireless applications
- Service contract
- Special buttons for lone worker protection (LWP) applications
- Programmable hardware buttons
- Latest firmware release: Android™ 9

Ex-Handy 10 DZ2 (DIV 2 and Zone 2/22), latest available Android firmware release, with camera, version for China



Technical Data

General specifications

Function	The Ex-Handy 10 is full WEA 2.0 compliant and is also supporting WEA 3.0 features / functionality except advanced geo location tagging.
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Hardware

Processor	Qualcomm Snapdragon MSM8909
Working memory	RAM 2 GByte
Camera	
Main camera	8 MP Autofocus , LED flash
Internal data memory	16 GByte
Optional data memory	Micro SD flash card up to 16 GByte
Speaker	Forward facing main speaker with Gore® cone
Microphone	Dual-mic solution with three selectable background noise suppression options

Indicators/operating means

Display	Can be operated while wearing gloves Extreme shock and scratch resistant Gorilla® glass
Touchscreen technology	Capacitive multitouch
Screen diagonal	6.6 cm
Key	PTT / Alarm / Power / Multifunction / Volume / Hardware buttons for Android features

Electrical specifications

Battery type	Li-Ion battery 16.3 WH 3.7 V 4400 mAh
Operating duration	LTE standby time: up to 600 h

Communication

Mobile standard	
2G	GSM: 850 MHz, 900 MHz, 1800 MHz, 1900 MHz
3G	UMTS: 850 MHz, 900 MHz, 1700 MHz, 1900 MHz, 2100 MHz
4G	LTE FDD: B1, B2, B3, B4, B5, B7, B8, B11, B12, B13, B20, B21, B25, B26, B28, B66, B71 LTE TDD: B38, B39, B40, B41
WLAN	802.11 a/b/g/n/e/k/r/h (2,4 GHz + 5 GHz)
Bluetooth	Bluetooth® 4.2
GPS sensor	GPS, A-GPS, Glonass, Beidou

Technical Data

NFC	yes
SIM card	1x Nano SIM (4FF)
Software	
Operating system	Android™ 9 , Android™ Zero Touch , Google Play
SMS/MMS	yes
Ambient conditions	
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Mechanical specifications	
Degree of protection	IP68 , MIL-STD-810G
Connection	7-pins water-proof magnetic USB 2.0 port 3.5 mm jack connection with special ecom mounting solution
Mass	330 g
Dimensions	
W x H x D	67 mm x 148 mm x 24 mm
International approvals	
CSA approval	
CSA certificate	I.S Class I, Division 2, Groups A-D; T4 Class II, III, Division 2, Groups E-G; T120°C Ex ic IIC T4 Gc / Ex ic IIIC T120°C Dc CL I, Zone 2, AEx ic IIC T4 Gc Zone 22, AEx ic IIIC T120°C Dc
NEPSI approval	
NEPSI certificate	Certificate in preparation.
Approved for	China
General information	
Scope of delivery	Ex-Handy 10 Li-Ion battery Charger USB cable Screwdriver Documentation



Feature phone

Ex-Handy 10

Ex-Handy10-ROW-DZ1ZAF-ANDC00..



- Replaceable SIM
- Global certificates - a common hardware platform
- Wireless connections such as WWAN, 4G LTE, WLAN and Bluetooth®
- Android™ Enterprise Recommended verified device
- GPS
- NFC technology for wireless applications
- Service contract
- Programmable hardware buttons
- Special buttons for lone worker protection (LWP) applications
- Latest firmware release: Android™ 9

Ex-Handy 10 DZ1 (DIV 1 and Zone 1/21), latest available Android firmware release, with camera, version for South Africa



Technical Data

General specifications

Function	The Ex-Handy 10 is full WEA 2.0 compliant and is also supporting WEA 3.0 features / functionality except advanced geo location tagging.
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Hardware

Processor	Qualcomm Snapdragon MSM8909
Working memory	RAM 2 GByte
Camera	
Main camera	8 MP Autofocus , LED flash
Internal data memory	16 GByte
Optional data memory	Micro SD flash card up to 16 GByte
Speaker	Forward facing main speaker with Gore® cone
Microphone	Dual-mic solution with three selectable background noise suppression options

Indicators/operating means

Display	Can be operated while wearing gloves Extreme shock and scratch resistant Gorilla® glass
Touchscreen technology	Capacitive multitouch
Screen diagonal	6.6 cm
Key	PTT / Alarm / Power / Multifunction / Volume / Hardware buttons for Android features

Electrical specifications

Battery type	Li-Ion battery 16.3 WH 3.7 V 4400 mAh
Operating duration	LTE standby time: up to 600 h

Communication

Mobile standard	
2G	GSM: 850 MHz, 900 MHz, 1800 MHz, 1900 MHz
3G	UMTS: 850 MHz, 900 MHz, 1700 MHz, 1900 MHz, 2100 MHz
4G	LTE FDD: B1, B2, B3, B4, B5, B7, B8, B11, B12, B13, B20, B21, B25, B26, B28, B66, B71 LTE TDD: B38, B39, B40, B41
WLAN	802.11 a/b/g/n/e/k/r/h (2,4 GHz + 5 GHz)
Bluetooth	Bluetooth® 4.2
GPS sensor	GPS, A-GPS, Glonass, Beidou

Technical Data

NFC	yes
SIM card	1x Nano SIM (4FF)
Software	
Operating system	Android™ 9 , Android™ Zero Touch , Google Play
SMS/MMS	yes
Ambient conditions	
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Mechanical specifications	
Degree of protection	IP68 , MIL-STD-810G
Connection	7-pins water-proof magnetic USB 2.0 port 3.5 mm jack connection with special ecom mounting solution
Mass	approx. 330 g
Dimensions	
W x H x D	67 mm x 148 mm x 24 mm
Data for application in connection with hazardous areas	
ATEX approval	
ATEX certificate	EPS 19 ATEX 1 015 X
ATEX marking	Ⓔ II 2G Ex ib op is IIC T4 Gb IP64 Ⓔ II 2D Ex ib op is IIIC T120°C Db Ta = -20 °C to +60 °C
International approvals	
CSA approval	
CSA certificate	I.S. Class I, Division 1, Groups A-D; T4 Class II, III, Division 1, Groups E-G; T120°C Ex ib op is IIC T4 Gb / Ex ib op is IIIC T120°C Db CL I, Zone 1, AEx ib op is IIC T4 Gb Zone 21, AEx ib op is IIIC T120°C Db
IECEX approval	
IECEX certificate	IECEX EPS 19.0008X
IECEX marking	Ex ib op is IIC T4 Gb IP64 Ex ib op is IIIC T120°C Db Ta = -20 °C to +60 °C
IA approval	
IA certificate	MASC S/20-8557X
Approved for	South Africa
General information	
Scope of delivery	Ex-Handy 10 Li-Ion battery Charger USB cable Screwdriver Documentation



Feature phone

Ex-Handy 10

Ex-Handy10-ROW-DZ2AIC-ANDCCM..



- Provisioning of a full-fledged Android phone
- Limiting the functions to those of a classic phone
- Allowing access only to the necessary phone functions
- Adding self-developed ECOM apps, based on SMT suite
- SMT apps do not have any connection to online services
- All data is stored and remains on the phone locally
- Access to the settings menu to allow the user to personalize his phone

Ex-Handy 10 CLASSIC MODE, DZ2 (DIV 2 and Zone 2/22), Android™ 9, with camera, global version



Technical Data

General specifications

Function	The Ex-Handy 10 is full WEA 2.0 compliant and is also supporting WEA 3.0 features / functionality except advanced geo location tagging.
Description	CLASSIC MODE with camera

Hardware

Processor	Qualcomm Snapdragon MSM8909
Working memory	RAM 2 GByte
Camera	
Main camera	8 MP Autofocus , LED flash
Internal data memory	16 GByte
Optional data memory	Micro SD flash card up to 16 GByte
Speaker	Forward facing main speaker with Gore® cone
Microphone	Dual-mic solution with three selectable background noise suppression options

Indicators/operating means

Display	Can be operated while wearing gloves Extreme shock and scratch resistant Gorilla® glass
Touchscreen technology	Capacitive multitouch
Screen diagonal	6.6 cm
Key	PTT / Alarm / Power / Multifunction / Volume / Hardware buttons for Android features

Electrical specifications

Battery type	Li-Ion battery 16.3 WH 3.7 V 4400 mAh
Operating duration	LTE standby time: up to 600 h

Communication

Mobile standard	
2G	GSM: 850 MHz, 900 MHz, 1800 MHz, 1900 MHz
3G	UMTS: 850 MHz, 900 MHz, 1700 MHz, 1900 MHz, 2100 MHz
4G	LTE FDD: B1, B2, B3, B4, B5, B7, B8, B11, B12, B13, B20, B21, B25, B26, B28, B66, B71 LTE TDD: B38, B39, B40, B41
WLAN	802.11 a/b/g/n/e/k/r/h (2,4 GHz + 5 GHz)
Bluetooth	Bluetooth® 4.2
GPS sensor	GPS, A-GPS, Glonass, Beidou
NFC	yes
SIM card	1x Nano SIM (4FF)

Technical Data

Software		
Operating system		Android™ 9 , Android™ Zero Touch
Applications		CALCULATOR, CLOCK, CONTACTS, DIALER, eFLASH, eRESET, eSENTINEL, GALLERY, SMS Messenger
SMS/MMS		yes
Ambient conditions		
Ambient temperature		-20 ... 60 °C (-4 ... 140 °F)
Mechanical specifications		
Degree of protection		IP68 , MIL-STD-810G
Connection		7-pins water-proof magnetic USB 2.0 port 3.5 mm jack connection with special ecom mounting solution
Mass		approx. 330 g
Dimensions		
W x H x D		67 mm x 148 mm x 24 mm
Data for application in connection with hazardous areas		
ATEX approval		
ATEX certificate		EPS 19 ATEX 1 016 X
ATEX marking		Ⓜ II 3G Ex ic IIC T4 Gc IP64 Ⓜ II 3D Ex ic IIIC T120°C Dc Ta = -20 °C to +60 °C
International approvals		
CSA approval		
CSA certificate		I.S Class I, Division 2, Groups A-D; T4 Class II, III, Division 2, Groups E-G; T120°C Ex ic IIC T4 Gc / Ex ic IIIC T120°C Dc CL I, Zone 2, AEx ic IIC T4 Gc Zone 22, AEx ic IIIC T120°C Dc
IECEX approval		
IECEX certificate		IECEX EPS 19.0009X
IECEX marking		Ex ic IIC T4 Gc IP64 Ex ic IIIC T120°C Dc Ta = -20 °C to +60 °C
Approved for		Albania, Australia, Austria, Azerbaijan, Belgium, Bosnia-Herzegovina, Brunei, Bulgaria, Canada, Ceuta, Croatia, Czech Republic, Denmark, Égypt, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, India, Iraq, Ireland, Israel, Italy, Kuwait, Latvia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Malaysia, Malta, Mexico, Montenegro, Myanmar, Netherlands, New Zealand, Norway, Oman, Peru, Philippines, Poland, Portugal, Romania, Saudi Arabia, Serbia, Singapore, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Thailand, Turkey, United Arab Emirates, United Kingdom, Uzbekistan, Vietnam, USA
General information		
Scope of delivery		Ex-Handy 10 Li-Ion battery Charger USB cable Screwdriver Documentation



Feature phone

Ex-Handy 10

Ex-Handy10-ROW-DZ1AIC-ANDCCM..



- Provisioning of a full-fledged Android phone
- Limiting the functions to those of a classic phone
- Allowing access only to the necessary phone functions
- Adding self-developed ECOM apps, based on SMT suite
- SMT apps do not have any connection to online services
- All data is stored and remains on the phone locally
- Access to the settings menu to allow the user to personalize his phone

Ex-Handy 10 CLASSIC MODE, DZ1 (DIV 1 and Zone 1/21), Android™ 9, with camera, global version



Technical Data

General specifications

Function	The Ex-Handy 10 is full WEA 2.0 compliant and is also supporting WEA 3.0 features / functionality except advanced geo location tagging.
Description	CLASSIC MODE with camera

Hardware

Processor	Qualcomm Snapdragon MSM8909
Working memory	RAM 2 GByte
Camera	
Main camera	8 MP Autofocus , LED flash
Internal data memory	16 GByte
Optional data memory	Micro SD flash card up to 16 GByte
Speaker	Forward facing main speaker with Gore® cone
Microphone	Dual-mic solution with three selectable background noise suppression options

Indicators/operating means

Display	Can be operated while wearing gloves Extreme shock and scratch resistant Gorilla® glass
Touchscreen technology	Capacitive multitouch
Screen diagonal	6.6 cm
Key	PTT / Alarm / Power / Multifunction / Volume / Hardware buttons for Android features

Electrical specifications

Battery type	Li-Ion battery 16.3 WH 3.7 V 4400 mAh
Operating duration	LTE standby time: up to 600 h

Communication

Mobile standard	
2G	GSM: 850 MHz, 900 MHz, 1800 MHz, 1900 MHz
3G	UMTS: 850 MHz, 900 MHz, 1700 MHz, 1900 MHz, 2100 MHz
4G	LTE FDD: B1, B2, B3, B4, B5, B7, B8, B11, B12, B13, B20, B21, B25, B26, B28, B66, B71 LTE TDD: B38, B39, B40, B41
WLAN	802.11 a/b/g/n/e/k/r/h (2,4 GHz + 5 GHz)
Bluetooth	Bluetooth® 4.2
GPS sensor	GPS, A-GPS, Glonass, Beidou
NFC	yes
SIM card	1x Nano SIM (4FF)

Technical Data

Software		
Operating system		Android™ 9 , Android™ Zero Touch
Applications		CALCULATOR, CLOCK, CONTACTS, DIALER, eFLASH, eRESET, eSENTINEL, GALLERY, SMS Messenger
SMS/MMS		yes
Ambient conditions		
Ambient temperature		-20 ... 60 °C (-4 ... 140 °F)
Mechanical specifications		
Degree of protection		IP68 , MIL-STD-810G
Connection		7-pins water-proof magnetic USB 2.0 port 3.5 mm jack connection with special ecom mounting solution
Mass		approx. 330 g
Dimensions		
W x H x D		67 mm x 148 mm x 24 mm
Data for application in connection with hazardous areas		
ATEX approval		
ATEX certificate		EPS 19 ATEX 1 015 X
ATEX marking	Ⓜ II 2G Ex ib op is IIC T4 Gb IP64 Ⓜ II 2D Ex ib op is IIIC T120°C Db Ta = -20 °C to +60 °C	
International approvals		
CSA approval		
CSA certificate		I.S. Class I, Division 1, Groups A-D; T4 Class II, III, Division 1, Groups E-G; T120°C Ex ib op is IIC T4 Gb / Ex ib op is IIIC T120°C Db CL I, Zone 1, AEx ib op is IIC T4 Gb Zone 21, AEx ib op is IIIC T120°C Db
IECEX approval		
IECEX certificate		IECEX EPS 19.0008X
IECEX marking	Ex ib op is IIC T4 Gb IP64 Ex ib op is IIIC T120°C Db Ta = -20 °C to +60 °C	
Approved for		Albania, Australia, Austria, Azerbaijan, Belgium, Bosnia-Herzegovina, Brunei, Bulgaria, Canada, Ceuta, Croatia, Czech Republic, Denmark, Egypt, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, India, Iraq, Ireland, Israel, Italy, Kuwait, Latvia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Malaysia, Malta, Mexico, Montenegro, Myanmar, Netherlands, New Zealand, Norway, Oman, Peru, Philippines, Poland, Portugal, Romania, Saudi Arabia, Serbia, Singapore, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Thailand, Turkey, United Arab Emirates, United Kingdom, Uzbekistan, Vietnam, USA
General information		
Scope of delivery		Ex-Handy 10 Li-Ion battery Charger USB cable Screwdriver Documentation

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