

# Data Sheet Smart-Ex® 02

## DZ1



Ⓢ II 2G Ex ib op is IIC T4 Gb IP64  
 Ⓢ II 2D Ex ib op is IIIC T120°C Db  
 Ambient temperature: -20 °C ≤ Ta ≤ +60 °C



Ex ib op is IIC T4 Gb IP64  
 Ex ib op is IIIC T120°C Db  
 Ambient temperature: -20 °C ≤ Ta ≤ +60 °C



CI I, II, III, Division 1 Group A-G T4 IP64  
 Ex ib op is IIC T4 Gb  
 Ex ib op is IIIC T120°C Db  
 CI 1 Zn 1, AEx ib op is IIC T4 Gb  
 Zn 21, AEx ib op is IIIC T120°C Db  
 Ambient temperature: -20 °C ≤ Ta ≤ +60°C, IP64

Further approvals at: [www.ecom-ex.com](http://www.ecom-ex.com)



### Technical Data

<b>Operating System</b>	Android™   Android Enterprise Recommended  Unless otherwise specified, the product is shipped with the latest firmware release. Latest firmware release: Android™ 9 <b>Upgrade to Android™ 11 now available.</b>
<b>Processor</b>	Qualcomm Snapdragon 450 platform
<b>Band</b>	Cellular frequency bands: 4G LTE FDD: B1, B2, B3, B4, B5, B7, B8, B11, B12, B13, B20, B21, B25, B26, B28, B66, B71 4G LTE TDD: B38, B39, B40, B41 3G UMTS: 850 / 900 / 1700 / 1900 / 2100 MHz 2G GSM: 850 / 900 / 1800 / 1900 MHz
<b>Memory</b>	3 GB RAM + 32 GB ROM   microSD card up to 128 GB
<b>Display</b>	12.7 cm (5.0") extreme shock and scratch resistant Gorilla® Glass with glove touch and wet mode
<b>Ports</b>	<ul style="list-style-type: none"> <li>■ 3.5 mm jack connection with special ecom mounting solution</li> <li>■ 7-pins water-proof magnetic USB 2.0 connector</li> </ul>
<b>Dimensions</b>	163 x 82 x 22 mm
<b>Weight</b>	approx. 380 g
<b>Dedicated Keys</b>	Programmable key / Alarm / Power / Multifunction / Volume / Hardware buttons for Android features
<b>Connectivity</b>	<ul style="list-style-type: none"> <li>■ 4G / LTE -standard (SIM unlocked); LTE Dual SIM; Nano SIM</li> <li>■ WiFi 2.4 Ghz and 5 Ghz support</li> <li>■ WiFi standards 802.11 a/b/g/n/ac/e/k/r/h</li> <li>■ Bluetooth® 4.2 incl. BLE (Bluetooth Low Energy)</li> <li>■ GPS / A-GPS / Glonass / Beidou / Galileo</li> <li>■ NFC</li> </ul>
<b>Camera</b>	12 MP rear with autofocus and LED flash with flashlight function / 5 MP front (optional)
<b>Battery</b>	Replaceable Li-Ion Battery pack with 3.7 V / 4400 mAh / 16.28 Wh
<b>Protection class</b>	IP68, MIL-STD-810G

# Data Sheet Smart-Ex<sup>®</sup> 02

## DZ2

### ATEX



Ⓜ II 3G Ex ic op is IIC T4 Gc IP64  
 Ⓜ II 3D Ex ic op is IIIC T120°C Dc  
 Ambient temperature: -20 °C ≤ Ta ≤ +60 °C

### IECEX



Ex ic op is IIC T4 Gc IP64  
 Ex ic op is IIIC T120°C Dc  
 Ambient temperature: -20 °C ≤ Ta ≤ +60 °C

### SGS (CEC / NEC)



CI I, II, III, Division 2 Group A-G T4 IP64  
 Ex ic IIC T4 Gc  
 Ex ic IIIC T120°C Dc  
 CI I Zn 2, AEx ic IIC T4 Gc  
 Zn 22, AEx ic IIIC T120°C Dc  
 Ambient temperature: -20 °C ≤ Ta ≤ +60°C, IP64

Further approvals at: [www.ecom-ex.com](http://www.ecom-ex.com)



### Technical Data

<b>Operating System</b>	Android™   Android Enterprise Recommended  Unless otherwise specified, the product is shipped with the latest firmware release. Latest firmware release: Android™ 9 <b>Upgrade to Android™ 11 now available.</b>
<b>Processor</b>	Qualcomm Snapdragon 450 platform
<b>Band</b>	Cellular frequency bands: 4G LTE FDD: B1, B2, B3, B4, B5, B7, B8, B11, B12, B13, B20, B21, B25, B26, B28, B66, B71 4G LTE TDD: B38, B39, B40, B41 3G UMTS: 850 / 900 / 1700 / 1900 / 2100 MHz 2G GSM: 850 / 900 / 1800 / 1900 MHz
<b>Memory</b>	3 GB RAM + 32 GB ROM   microSD card up to 128 GB
<b>Display</b>	12.7 cm (5.0") extreme shock and scratch resistant Gorilla® Glass with glove touch and wet mode
<b>Ports</b>	<ul style="list-style-type: none"> <li>3.5 mm jack connection with special ecom mounting solution</li> <li>7-pins water-proof magnetic USB 2.0 connector</li> </ul>
<b>Dimensions</b>	163 x 82 x 22 mm
<b>Weight</b>	approx. 380 g
<b>Dedicated Keys</b>	Programmable key / Alarm / Power / Multifunction / Volume / Hardware buttons for Android features
<b>Connectivity</b>	<ul style="list-style-type: none"> <li>4G / LTE -standard (SIM unlocked); LTE Dual SIM; Nano SIM</li> <li>WiFi 2.4 Ghz and 5 Ghz support</li> <li>WiFi standards 802.11 a/b/g/n/ac/e/k/r/h</li> <li>Bluetooth® 4.2 incl. BLE (Bluetooth Low Energy)</li> <li>GPS / A-GPS / Glonass / Beidou / Galileo</li> <li>NFC</li> </ul>
<b>Camera</b>	12 MP rear with autofocus and LED flash with flashlight function / 5 MP front (optional)
<b>Battery</b>	Replaceable Li-Ion Battery pack with 3.7 V / 4400 mAh / 16.28 Wh
<b>Protection class</b>	IP68, MIL-STD-810G