Qmini U-TAG

UHF-RFID miniature transponder
- passive RFID communication ISM UHF band, EPC
  Class1 Gen2 or ISO 18000-6C
- miniature square TAG, Q1.6 and Q2.0
- very small TAG size
- EEPROM memory
- designed for small item tagging, tool management solutions, aircraft and automotive part tagging

These transponder device is an integral part of microsensys iID® system solution.
This TAG operates with microsensys standard RFID reader components and high sensitive demodulators.

RFID Technology: UHF closed coupling system iID®4000, based on ISO 18000-6c, EPC Class1 Gen2
Chip Types: NXP UCODE 7, UCODE 8, UCODE DNA

Frequency Range: preferably EU ISM Band 860-868MHz
Polarisation: without polarisation, inductive coupled
Communication Rate:
  forward link: 40-160kBit/s
  return link: 40-640kBit/s

Communication Distance: 0 ... 15 mm
with closed coupling UHF readers
in every case depending on reader system and environmental conditions

Memory: EEPROM
Memory Capacity: 128 bit EPC, 96 bit TID
User Memory:
Special Functionality: see application note microsensys

Operating Temperature: -25°C ... +85°C
Storage Temperature: -45°C ... +125°C (for short time +150°C)

Dimensions:
  1.6 x 1.6 mm², TH 0.4 mm (max)
  2.0 x 2.0 mm², TH 0.6 mm (max)

Packaging Material: black epoxy

Mounting Instructions:
  glue no using on metal plane side on top
  recommended glue: 2K-EP “plus endfest 300” UHU GmbH Germany

Protection Class: IP67
Marking: no marking

Appropriate RFID Reader:
  POCKETwork UHFcc wireless handheld reader
  PENsoid UHF wireless pen reader
  INDUSTRY 0906 UHF plus M18 UHFcc stationary industrial read write unit
  others possible

HOST Command Set: see actual API documentation of microsensys iID® driver engine

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<tbody>
<tr>
<td>Chip Type</td>
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<td>UCODE 8</td>
<td>UCODE DNA</td>
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<tr>
<td>User Memory</td>
<td>0</td>
<td>0</td>
<td>up to 3k</td>
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<tr>
<td>Dimension</td>
<td>1.6 x 1.6 x 0.4</td>
<td>2.0 x 2.0 x 0.6</td>
<td>2.0 x 2.0 x 0.6</td>
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<td>8</td>
<td>12</td>
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<tr>
<td>Communication Distance</td>
<td></td>
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<td>measured with M18 UHF antenna</td>
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* on inquiry