# TTN Payload Decoder

**for zTrack (mini) only - made by www.zane.hu => www.ttnmapper.org**

**modifications: 20180906** **contact: lorawan.berlin@gmail.com**

---

`Original zTrack test package, derived from port 204`

**4A A3 DA 09 7F 50 02 2A 10 02 92 66 [ = exactly and always 12 Bytes !]**

---

**More infos:**
https://www.thethingsnetwork.org/forum/t/decrypting-messages-for-dummies/4894

This was/is only a 1st working sheet, opened 4 public use by me; because there wasn't anything available before. Not all people are engineers….. Nothing else...

---

- ~~v0.1~~
- v0.1a (Freiburg)
- ~~v2.0~~
- ~~v2.1~~
- ~~v3.0 stable~~
- v3.1 stable & ttnmapper.org
- v4.0 dev
- v4.1 dev
- v5.0 stable tested

---

## updated: 13.07.2018

**23.06.18: by Pat Molloy ,Hinzufügen:** *"o", yes. thx. corrected. this was a transfer error only into google docs*

---

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**modifications: 20180906** **contact: lorawan.berlin@gmail.com**

## v0.1 - 15.05.2018

```
function Decoder(b,port)

{

  var decode204  = {};
  var decode204a = {};

  decode204a.lat          = b[0]<<16 | b[1]<<8 | b[2];
  decode204a.lng          = b[3]<<16 | b[4]<<8 | b[5];
  decode204.altitude      = b[6]<<8  | b[7];
  decode204.HDOP          = b[8];

  decode204.Temperatur=(b[9]&0x0F)*100;
  decode204.Temperatur+=(b[10]>>4)*10;
  decode204.Temperatur+=(b[10]&0x0F);
  if (b[9]&0xF0)
       decode204.Temperatur/=-10;
     else
      decode204.Temperatur/=10;

  decode204.Batterie=(b[11]>>4)*10;
  decode204.Batterie+=(b[11]&0x0F);

  decode204.latitude    = (decode204a.lat  / 8388606) * 90;
  decode204.longitude   = (decode204a.lng  / 8388606) * 180;

  return decode204;

}
```

Decoding results are:


```
{
  "Batterie": 66,
  "HDOP": 16,
  "Temperatur": 29.2,
  "altitude": 554,
  "latitude": 52.48129426987035,
  "longitude": 13.355601633930597
}
```


Integration of geodata in ttnmapper.org was successfull!

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**modifications: 20180906** **contact: lorawan.berlin@gmail.com**

## v0.1a - 24.06.2018 Freiburg

```
function Decoder(b,port)

{


  var decode204  = {};
  var decode204a = {};

  decode204a.lat           = b[0]<<16 | b[1]<<8 | b[2];
  decode204a.lng           = b[3]<<16 | b[4]<<8 | b[5];
  decode204.altitude       = b[6]<<8  | b[7];
  decode204a.hdop          = b[8];

  decode204.Temperatur=(b[9]&0x0F)*100;
  decode204.Temperatur+=(b[10]>>4)*10;
  decode204.Temperatur+=(b[10]&0x0F);
  if (b[9]&0xF0)
       decode204.Temperatur/=-10;
      else
      decode204.Temperatur/=10;

  decode204.Batterie=(b[11]>>4)*10;
  decode204.Batterie+=(b[11]&0x0F);

  decode204.latitude     = (decode204a.lat  / 8388606) * 90;
  decode204.longitude    = (decode204a.lng  / 8388606) * 180;
  decode204.HDOP         = decode204a.hdop / 10;

  return decode204;

}
```

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**modifications: 20180906** **contact: lorawan.berlin@gmail.com**

## v2.0 18.05.2018

with integration of all device ports: 200 204 205 207 208

```
function Decoder(b,port)
{

  var decode200  = {};
  var decode204  = {};
  var decode204a = {};
  var decode205  = {};
  var decode207  = {};
  var decode208  = {};
  var decode000  = {};



 if(port===204)
 {
  decode204.payload4       = b;
  decode204.Tor4           = 204;
  decode204a.lat           = b[0]<<16 | b[1]<<8 | b[2];
  decode204a.lng           = b[3]<<16 | b[4]<<8 | b[5];
  decode204.altitude       = b[6]<<8  | b[7];
  decode204.HDOP           = b[8];

  decode204.Temperatu4r=(b[9]&0x0F)*100;
  decode204.Temperatu4r+=(b[10]>>4)*10;
  decode204.Temperatu4r+=(b[10]&0x0F);
  if (b[9]&0xF0)
        decode204.Temperatur4/=-10;
    else
    decode204.Temperatur4/=10;

  decode204.Batterie4=(b[11]>>4)*10;
  decode204.Batterie4+=(b[11]&0x0F);

  decode204.latitude     = (decode204a.lat  / 8388606) * 90;
  decode204.longitude    = (decode204a.lng  / 8388606) * 180;

   return decode204;

 }

 else if(port===205)
  {
    decode205.payload5     = b;
    decode205.Tor5         = 205;
    decode205.Temperatur5 =(b[0]&0x0F)*100;
    decode205.Temperatur5+=(b[1]>>4)*10;
    decode205.Temperatur5+=(b[1]&0x0F);
```

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```
  if (b[0]&0xF0)
        decode205.Temperatur5/=-10;
    else
    decode205.Temperatur5/=10;

  decode205.Batterie5=(b[2]>>4)*10;
  decode205.Batterie5+=(b[2]&0x0F);

  return decode205;

  }

  else if(port===207)
  {
    decode207.payload7   = b;
    decode207.Tor7       = 207;
    decode207.Temperatur7= (b[0]&0x0F)*100;
    decode207.Temperatur7+=(b[1]>>4)*10;
    decode207.Temperatur7+=(b[1]&0x0F);
  if (b[0]&0xF0)
        decode207.Temperatur7/=-10;
    else
    decode207.Temperatur7/=10;

  decode207.Batterie7=(b[2]>>4)*10;
  decode207.Batterie7+=(b[2]&0x0F);

  return decode207;
  }

  else if(port===208)
  {
    decode208.payload8 = b;
    decode208.Tor8     = 208;

   return decode208;
  }

  else if(port===200)
  {
    decode200.payload0 = b;
    decode200.Tor0     =200;

   return decode200;

  }
  else
  {
   return {payload: b};
  }
}
```

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---

## v2.1 19.05.2018

without experimental features
with integration of all device ports: 200 204 205 207 208

---

```
function Decoder(b,port)
{

  var decode200  = {};
  var decode204  = {};
  var decode204a = {};
  var decode205  = {};
  var decode207  = {};
  var decode208  = {};
  var decode000  = {};



 if(port===204)
 {
  decode204.Tor4           = 204;
  decode204a.lat           = b[0]<<16 | b[1]<<8 | b[2];
  decode204a.lng           = b[3]<<16 | b[4]<<8 | b[5];
  decode204.altitude       = b[6]<<8  | b[7];
  decode204.HDOP           = b[8];

  decode204.Temperatu4r=(b[9]&0x0F)*100;
  decode204.Temperatu4r+=(b[10]>>4)*10;
  decode204.Temperatu4r+=(b[10]&0x0F);
  if (b[9]&0xF0)
        decode204.Temperatur4/=-10;
    else
    decode204.Temperatur4/=10;

  decode204.Batterie4=(b[11]>>4)*10;
  decode204.Batterie4+=(b[11]&0x0F);

  decode204.latitude     = (decode204a.lat / 8388606) * 90;
  decode204.longitude    = (decode204a.lng / 8388606) * 180;

   return decode204;

 }

 else if(port===205)
  {
    decode205.Tor5         = 205;
    decode205.Temperatur5 =(b[0]&0x0F)*100;
    decode205.Temperatur5+=(b[1]>>4)*10;
```

---

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```
    decode205.Temperatur5+=(b[1]&0x0F);
  if (b[0]&0xF0)
        decode205.Temperatur5/=-10;
    else
    decode205.Temperatur5/=10;

  decode205.Batterie5=(b[2]>>4)*10;
  decode205.Batterie5+=(b[2]&0x0F);

  return decode205;

  }

  else if(port===207)
  {
    decode207.Tor7        = 207;
    decode207.Temperatur7= (b[0]&0x0F)*100;
    decode207.Temperatur7+=(b[1]>>4)*10;
    decode207.Temperatur7+=(b[1]&0x0F);
      if (b[0]&0xF0)
      decode207.Temperatur7/=-10;
        else
      decode207.Temperatur7/=10;

  decode207.Batterie7=(b[2]>>4)*10;
  decode207.Batterie7+=(b[2]&0x0F);

  return decode207;
  }

  else if(port===208)
  {
    decode208.Tor8      = 208;

   return decode208;
  }

  else if(port===200)
  {
    decode200.Tor0      =200;

   return decode200;

  }
  else
  {
   return {payload: b};
  }
}
```

# TTN Payload Decoder

**for zTrack (mini) only - made by www.zane.hu => www.ttnmapper.org**

**modifications: 20180906** **contact: lorawan.berlin@gmail.com**

## v3.0 stable version 03.06.2018

with integration of device ports: 204 205 207

```
function Decoder(b,port)
{
  var decode      = {};

 if(port===204)
 {
  decode.Payload     = b;
  decode.Door        = port;
  decode.lat         = b[0]<<16 | b[1]<<8 | b[2];
  decode.lng         = b[3]<<16 | b[4]<<8 | b[5];
  decode.altitude    = b[6]<<8  | b[7];
  decode.HDOP        = b[8];
  decode.Temperatur =(b[9]&0x0F)*100;
  decode.Temperatur+=(b[10]>>4)*10;
  decode.Temperatur+=(b[10]&0x0F);
     if (b[9]&0xF0)
        decode.Temperatur/=-10;
     else
     decode.Temperatur/=10;

  decode.Batterie =(b[11]>>4)*10;
  decode.Batterie+=(b[11]&0x0F);

  decode.latitude       = (decode.lat / 8388606) * 90;
  decode.longitude      = (decode.lng / 8388606) * 180;
  decode.Latitude       = (decode.lat / 8388606) * 90;
  decode.Longitude      = (decode.lng / 8388606) * 180;

    return decode;

 }

 else if(port===205)
   {
     decode.Payload     = b;
     decode.Door        = port;
     decode.Temperatur =(b[0]&0x0F)*100;
     decode.Temperatur+=(b[1]>>4)*10;
     decode.Temperatur+=(b[1]&0x0F);
   if (b[0]&0xF0)
       decode.Temperatur/=-10;
     else
     decode.Temperatur/=10;
```

# TTN Payload Decoder

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**modifications: 20180906** **contact: lorawan.berlin@gmail.com**

```
  decode.Batterie=(b[2]>>4)*10;
  decode.Batterie+=(b[2]&0x0F);

  return decode;

  }

  else if(port===207)
  {
    decode.Payload    = b;
    decode.Door       = port;
    decode.Temperatur =(b[0]&0x0F)*100;
    decode.Temperatur+=(b[1]>>4)*10;
    decode.Temperatur+=(b[1]&0x0F);
  if (b[0]&0xF0)
       decode.Temperatur/=-10;
    else
    decode.Temperatur/=10;

  decode.Batterie=(b[2]>>4)*10;
  decode.Batterie+=(b[2]&0x0F);

  return decode;

  }

    else
    {
    decode.Door    = port;
    decode.Payload= b;

    return decode;
    }

}
```

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**for zTrack (mini) only - made by www.zane.hu => www.ttnmapper.org**

**modifications: 20180906** **contact: lorawan.berlin@gmail.com**

## v3.1 stable version 21.06.2018

with integration of device ports: 204 205 207

port 204:
latitude, longitude, hdop
allows seamless integration in ttnmapper.org - in theory

```
function Decoder(b,port)
{
  var decode      = {};
  var decode204   = {};
  var decode205   = {};
  var decode207   = {};

 if(port===204)
 {
  decode204.payload     = b;
  decode204.porta       = port;
  decode.lat            = b[0]<<16 | b[1]<<8 | b[2];
  decode.lng            = b[3]<<16 | b[4]<<8 | b[5];
  decode204.altitude    = b[6]<<8  | b[7];
  decode204.hdop        = b[8];
  decode204.temperature=(b[9]&0x0F)*100;
  decode204.temperature+=(b[10]>>4)*10;
  decode204.temperature+=(b[10]&0x0F);
     if (b[9]&0xF0)
       decode204.temperature/=-10;
     else
     decode204.temperature/=10;

  decode204.battery =(b[11]>>4)*10;
  decode204.battery+=(b[11]&0x0F);

  decode204.latitude       = (decode.lat / 8388606) * 90;
  decode204.longitude      = (decode.lng / 8388606) * 180;

   return decode204;

 }

 else if(port===205)
  {
    decode205.payload      = b;
    decode205.porta        = port;
    decode205.temperature =(b[0]&0x0F)*100;
```

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```
    decode205.temperature+=(b[1]>>4)*10;
    decode205.temperature+=(b[1]&0x0F);
  if (b[0]&0xF0)
       decode205.temperature/=-10;
    else
    decode205.temperature/=10;

  decode205.battery=(b[2]>>4)*10;
  decode205.battery+=(b[2]&0x0F);

  return decode205;

  }

  else if(port===207)
  {
    decode207.payload     = b;
    decode207.porta       = port;
    decode207.temperature =(b[0]&0x0F)*100;
    decode207.temperature+=(b[1]>>4)*10;
    decode207.temperature+=(b[1]&0x0F);
  if (b[0]&0xF0)
       decode207.temperature/=-10;
    else
    decode207.temperature/=10;

  decode207.battery=(b[2]>>4)*10;
  decode207.battery+=(b[2]&0x0F);

  return decode207;

  }

    else
    {
    decode.porta   = port;
    decode.payload = b;

    return decode;
    }

}
function Decoder(b,port)
{
    var decode     = {};
    var decode204  = {};
    var decode205  = {};
```

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**modifications: 20180906** **contact: lorawan.berlin@gmail.com**

```
    var decode207  = {};

    decode204.payload    = b;
    decode204.porta      = port;
    decode.lat           = b[0]<<16 | b[1]<<8 | b[2];
    decode.lng           = b[3]<<16 | b[4]<<8 | b[5];
    decode204.altitude   = b[6]<<8  | b[7];
    decode204.hdop       = b[8];
    decode204.temperature=(b[9]&0x0F)*100;
    decode204.temperature+=(b[10]>>4)*10;
    decode204.temperature+=(b[10]&0x0F);
    if (b[9]&0xF0)
        decode204.temperature/=-10;
    else
        decode204.temperature/=10;

    decode204.battery =(b[11]>>4)*10;
    decode204.battery+=(b[11]&0x0F);

    decode204.latitude      = (decode.lat / 8388606) * 90;
    decode204.longitude     = (decode.lng / 8388606) * 180;

    return {
        longitude:   decode204.longitude,
        latitude:    decode204.latitude,
        altitude:    decode204.altitude,
        temperature: decode204.temperature,
        hdop:        decode204.hdop,
        }
}
```

# TTN Payload Decoder

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**modifications: 20180906** **contact: lorawan.berlin@gmail.com**

---

## v4.0 dev version 17.06.2018

with integration of all device ports: 200 204 205 207 208
and ttnmapper.org

---

```
function Decoder(b,port)
{

  var decode  = {};


 if(port===204)
 {
  decode.payload    = b;
  decode.port       = 204;
  decode.latitude   = b[0]<<16 | b[1]<<8 | b[2];
  decode.longitude  = b[3]<<16 | b[4]<<8 | b[5];
  decode.altitude   = b[6]<<8  | b[7];
  decode.hdop       = b[8];


  decode.temperature =(b[9]&0x0F)*100;
  decode.temperature+=(b[10]>>4)*10;
  decode.temperature+=(b[10]&0x0F);
     if (b[9]&0xF0)
        decode.temperature/=-10;
     else
      decode.temperature/=10;

  decode.battery =(b[11]>>4)*10;
  decode.battery+=(b[11]&0x0F);

  decode.latitude  = (decode.latitude  / 8388606) * 90;
  decode.longitude = (decode.longitude / 8388606) * 180;


   return decode;

 }

 else if(port===205)
  {
    decode.payload    = b;
    decode.port       = 205;
```

# TTN Payload Decoder

**for zTrack (mini) only - made by www.zane.hu => www.ttnmapper.org**

**modifications: 20180906** **contact: lorawan.berlin@gmail.com**

```
    decode.temperatue =(b[0]&0x0F)*100;
    decode.temperature+=(b[1]>>4)*10;
    decode.temperature+=(b[1]&0x0F);
     if (b[0]&0xF0)
        decode.temperature/=-10;
     else
      decode.temperature/=10;

  decode.batterie=(b[2]>>4)*10;
  decode.batterie+=(b[2]&0x0F);

  return decode;

  }

  else if(port===207)
  {
    decode.payload     = b;
    decode.port        = 207;
    decode.temperature = (b[0]&0x0F)*100;
    decode.temperature+=(b[1]>>4)*10;
    decode.temperature+=(b[1]&0x0F);
     if (b[0]&0xF0)
        decode.temperature/=-10;
       else
      decode.temperature/=10;

  decode.battery =(b[2]>>4)*10;
  decode.battery+=(b[2]&0x0F);

  return decode;
  }

  else if(port===208)
  {
    decode.payload  = b;
    decode.port     = 208;

   return decode;
  }

  else if(port===200)
  {
    decode.payload = b;
    decode.port    = 200;

   return decode;

  }
  else
```

# TTN Payload Decoder

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**modifications: 20180906** **contact: lorawan.berlin@gmail.com**

```
  {
    return {payload: b};
  }
}
```

# TTN Payload Decoder

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**modifications: 20180906** **contact: lorawan.berlin@gmail.com**

## dev 4.2

**https://www.thethingsnetwork.org/forum/t/a-decoder-for-the-zane-ztrack/15226?u=bluesensing1**

```
function Decoder(bytes, port) {
  // Decode an uplink message from a buffer
  // (array) of bytes to an object of fields.

  // port = 99;

var temperature, temp_1, temp_2, bat_10, bat_1, battery, neg;

 if (port == 207 || port == 205) {
  temperature = ((bytes[0] & 15) * 10);
  temp_1 = (bytes[1] >> 4);
  temp_2 = (bytes[1] & 15);
  temperature = (temperature + temp_1) + (temp_2/10);

  bat_10 = (bytes[2]>> 4)*10;
  bat_1 = (bytes[2] & 15);
  battery = bat_10 + bat_1;

  neg = (bytes[0] >> 4);
  if (neg !== 0) temperature = -1 * temperature;

  return {
    port: port,
    temperature : temperature,
    battery : battery,
     composite : "bat:"+battery.toString() + ", tmp:" + temperature.toString() + ",
port:" + port.toString()
  }
}
else if (port == 204 || port == 99) {

  var latitude = (bytes[0] << 16) | (bytes[1] <<8) | bytes[2];
  latitude = (latitude/8388606) * 90;

  if (latitude > 180) {latitude = latitude - 360 }

  var longitude = (bytes[3] << 16) | (bytes[4] << 8) | bytes[5];
  longitude = (longitude/8388606) * 180;
```

# TTN Payload Decoder

**for zTrack (mini) only - made by www.zane.hu => www.ttnmapper.org**

**modifications: 20180906** **contact: lorawan.berlin@gmail.com**

```
  if (longitude > 180) {longitude = longitude - 360}

  var altitude = (bytes[6] << 8) | bytes[7];

  var satellites = bytes[8];

  temperature = ((bytes[9] & 15) * 10);
  temp_1 = (bytes[10] >> 4);
  temp_2 = (bytes[10] & 15);
  temperature = (temperature + temp_1) + (temp_2/10);

  bat_10 = (bytes[11]>> 4)*10;
  bat_1 = (bytes[11] & 15);
  battery = bat_10 + bat_1;

  neg = (bytes[9] >> 4);
  if (neg !== 0) temperature = -1 * temperature;

  return {

  port: port,
  latitude : latitude,
  longitude : longitude,
  altitude : altitude,
  sats : satellites,
  temperature: temperature,
  battery : battery,
  composite : "bat:"+battery.toString()
  + ", tmp:" + temperature.toString()
  + ", lat:" + latitude.toString()
  + ", long:" + longitude.toString()
  + ", alt:" + altitude.toString()
  + ", sats:" + satellites.toString()
  + ", port:" + port.toString()
  }


  }
else if (port == 200 || port == 208 || port == 99) {
      return {port: port, composite : "200 or 208 message"}
}
else { return {port: port, composite : "Something Odd"} }

}
```

# TTN Payload Decoder

**for zTrack (mini) only - made by www.zane.hu => www.ttnmapper.org**

**modifications: 20180906** **contact: lorawan.berlin@gmail.com**

## V5.0

```
function Decoder(b,port)
{
  var decode      = {};
  var decode1     = {};


 if(port===204)
 {
  decode.payload      = b;
  decode.porta        = port;
  decode1.lat         = b[0]<<16 | b[1]<<8 | b[2];
  decode1.lng         = b[3]<<16 | b[4]<<8 | b[5];
  decode.altitude     = b[6]<<8  | b[7];
  decode.hdop         = b[8];
  decode.temperature =(b[9]&0x0F)*100;
  decode.temperature+=(b[10]>>4)*10;
  decode.temperature+=(b[10]&0x0F);
     if (b[9]&0xF0)
       decode.temperature/=-10;
     else
     decode.temperature/=10;

  decode.battery =(b[11]>>4)*10;
  decode.battery+=(b[11]&0x0F);

  decode.latitude       = (decode1.lat / 8388606) * 90;
  decode.longitude      = (decode1.lng / 8388606) * 180;


    return decode;

 }

 else if(port===205)
  {
    decode.payload      = b;
    decode.porta        = port;
    decode.temperature =(b[0]&0x0F)*100;
```

# TTN Payload Decoder

**for zTrack (mini) only - made by www.zane.hu => www.ttnmapper.org**

**modifications: 20180906** **contact: lorawan.berlin@gmail.com**

```
    decode.temperature+=(b[1]>>4)*10;
    decode.temperature+=(b[1]&0x0F);
  if (b[0]&0xF0)
     decode.temperature/=-10;
    else
    decode.temperature/=10;

  decode.battery  =(b[2]>>4)*10;
  decode.battery+=(b[2]&0x0F);

  return decode;

  }

  else if(port===207)
  {
    decode.payload      = b;
    decode.porta        = port;
    decode.temperature =(b[0]&0x0F)*100;
    decode.temperature+=(b[1]>>4)*10;
    decode.temperature+=(b[1]&0x0F);
  if (b[0]&0xF0)
     decode.temperature/=-10;
    else
    decode.temperature/=10;

  decode.battery  =(b[2]>>4)*10;
  decode.battery +=(b[2]&0x0F);

  return decode;

  }

   else
   {
   decode.porta   = port;
   decode.payload = b;

   return decode;
   }

}
```

# TTN Payload Decoder

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---

v0.6 exp

```
function Decoder(b,port)

{

  var decode204  = {};
  var decode204a = {};


  decode204a.lat          = b[0]<<16 | b[1]<<8 | b[2];
  decode204a.lng          = b[3]<<16 | b[4]<<8 | b[5];
  decode.altitude         = b[6]<<8  | b[7];
  decode.hdop             = b[8];

  decode.temperature=(b[9]&0x0F)*100;
  decode.temperature+=(b[10]>>4)*10;
  decode.temperature+=(b[10]&0x0F);
  if (b[9]&0xF0)
        decode.temperature/=-10;
      else
      decode.temperature/=10;

  decode.battery=(b[11]>>4)*10;
  decode.battery+=(b[11]&0x0F);

  decode.latitude     = (decode204a.lat  / 8388606) * 90;
  decode.longitude    = (decode204a.lng  / 8388606) * 180;
  decode.porta        = port;

  return decode;

}
```

ps:
labor, concerning ports 200 208 still missing here .... no time -...

---

All announcements are without any obligations.
Alle Angaben ohne Gewähr.

---

# TTN Payload Decoder

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No responsibilities!

Berlin, 2018

lorawan.berlin@gmail.com

Die Sau, die durch den Tiergarten jagt …..

## Tresor / security section:

```
function Decoder(b,port)
{

 var decode200  = {};
 var decode204  = {};
 var decode204a = {};
```

# TTN Payload Decoder

for zTrack (mini) only - made by www.zane.hu => www.ttnmapper.org

modifications: 20180906 contact: lorawan.berlin@gmail.com

```
var decode205  = {};
var decode207  = {};
var decode208  = {};
var decode000  = {};



if(port===204)
{
 decode204.payload4      = b;
 decode204.Tor4          = 204;
 decode204a.lat          = b[0]<<16 | b[1]<<8 | b[2];
 decode204a.lng          = b[3]<<16 | b[4]<<8 | b[5];
 decode204.altitude      = b[6]<<8  | b[7];
 decode204.HDOP          = b[8];

 decode204.Temperatu4r=(b[9]&0x0F)*100;
 decode204.Temperatu4r+=(b[10]>>4)*10;
 decode204.Temperatu4r+=(b[10]&0x0F);
 if (b[9]&0xF0)
        decode204.Temperatur4/=-10;
   else
   decode204.Temperatur4/=10;

 decode204.Batterie4=(b[11]>>4)*10;
 decode204.Batterie4+=(b[11]&0x0F);

 decode204.latitude    = (decode204a.lat  / 8388606) * 90;
 decode204.longitude   = (decode204a.lng  / 8388606) * 180;

  return decode204;

}

else if(port===205)
 {
   decode205.payload5    = b;
   decode205.Tor5        = 205;
   decode205.Temperatur5 =(b[0]&0x0F)*100;
   decode205.Temperatur5+=(b[1]>>4)*10;
   decode205.Temperatur5+=(b[1]&0x0F);
 if (b[0]&0xF0)
```

# TTN Payload Decoder

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modifications: 20180906 contact: lorawan.berlin@gmail.com

```
        decode205.Temperatur5/=-10;
  else
  decode205.Temperatur5/=10;

 decode205.Batterie5=(b[2]>>4)*10;
 decode205.Batterie5+=(b[2]&0x0F);

 return decode205;

 }

 else if(port===207)
 {
  decode207.payload7   = b;
  decode207.Tor7       = 207;
  decode207.Temperatur7= (b[0]&0x0F)*100;
  decode207.Temperatur7+=(b[1]>>4)*10;
  decode207.Temperatur7+=(b[1]&0x0F);
 if (b[0]&0xF0)
        decode207.Temperatur7/=-10;
  else
  decode207.Temperatur7/=10;

 decode207.Batterie7=(b[2]>>4)*10;
 decode207.Batterie7+=(b[2]&0x0F);

 return decode207;
 }

 else if(port===208)
 {
  decode208.payload8 = b;
  decode208.Tor8     = 208;

  return decode208;
 }

 else if(port===200)
 {
  decode200.payload0 = b;
  decode200.Tor0     =200;
```

# TTN Payload Decoder

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```
  return decode200;

 }
 else
 {
  return {payload: b};
 }
}
```