

Time	Freq.	RSSI	SNR	TxPwr	CRC	mod.	CR	DataRate	FCnt	AirTime	DevAddr	FPort	Payload Size	MAC Command
20:33:03	924.8	-	-	20	CRC	LORA	4/5	SF7BW125	5	46	02B6990B	-	0	LinkADRReq

```

{
  "freq": 924800000,
  "mode": "linearstamped",
  "rssi": 906983876,
  "utmsat": 1692959535248,
  "rfch": 0,
  "psnr": 20,
  "pwr": 8,
  "mcrd": false,
  "modu": "LORA",
  "data": "SF7BW125",
  "code": "4/5",
  "lqol": true,
  "size": 17,
  "data": "YAu2tqKFBQADeP8DANEMk4="
}
{
  "MHDR": {
    "MType": "Unconfirmed Data Down",
    "RFU": 0,
    "Major": 0
  },
  "MACPayload": {
    "FHDR": {
      "DevAddr": "02B6990B",
      "FCtrl": {
        "ADR": true,
        "RFU": 0,
        "FReq": false,
        "ACK": false,
        "FoptsLen": 5
      },
      "FCnt": 5,
      "FOpts": [
        {
          "CID": "LinkADRReq",
          "DataRate": 7,
          "TXPower": 0,
          "ChMask": "0x0003",
          "ChMaskCntl": 0,
          "NbTxs": 0
        }
      ]
    },
    "MIC": "D1302E4E"
  }
}

```

20:33:03	924.8	-57	-	-	CRC_OK	FSK		50000	5	-	02B6990B	50	20	LinkADRAns
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```

{
  "freq": 924800000,
  "chan": 9,
  "rssi": 905983876,
  "utmsat": 1692959534823,
  "rfch": 1,
  "psnr": 5,
  "pwr": -57,
  "size": 35,
  "modu": "FSK",
  "data": "QAu2tqKCBQADeBz22vLmz8kx5Tpd0Bfakn6W7p7mV6hQ="
}
{
  "MHDR": {
    "MType": "Unconfirmed Data Up",
    "RFU": 0,
    "Major": 0
  },
  "MACPayload": {
    "FHDR": {
      "DevAddr": "02B6990B",
      "FCtrl": {
        "ADR": true,
        "ADRACKReq": false,
        "ClearSF": false,
        "ACK": false,
        "FoptsLen": 2
      },
      "FCnt": 5,
      "FOpts": [
        {
          "CID": "LinkADRAns",
          "PowerACK": true,
          "DataRateACK": true,
          "ChanMaskACK": true
        }
      ]
    },
    "FRM": {
      "FFmt": 50,
      "FRMPayload": "32 36 13 02 E6 CF C9 1D B7 94 E9 75 C0 58 7D A9 27 E8 AC 3B "
    },
    "MIC": "B995EA14"
  }
}

```

20:27:28 923.4 - - 20 CRC LORA 4/5 SF10BW125 3 371 02B6990B - 0 NewChannelReq LinkADRReq

```
{
  "freq": 923400000,
  "mode": "linearstamped",
  "tsmt": 619060180,
  "utmat": 1692999247326,
  "rfch": 0,
  "pcoa": 20,
  "pcoa": 0,
  "isrc": false,
  "modu": "LORA",
  "datr": "SF10BW125",
  "codr": "4/5",
  "spol": true,
  "size": 23,
  "data": "YAsTqgKLaAWCOQdJXcDYf#BAHTINa8="
}

{
  "MHDR": {
    "MType": "Unconfirmed Data Down",
    "RFU": 0,
    "Major": 0
  },
  "MACPayload": {
    "FHDR": {
      "DevAddr": "02B6990B",
      "FCtrl": {
        "ADR": true,
        "RFU": 0,
        "PFending": false,
        "ACK": false,
        "FOptsLen": 11
      },
      "FCnt": 3,
      "FOpts": [
        {
          "CID": "NewChannelReq",
          "ChIndex": 9,
          "Frequency": 924800000,
          "DrRange": {
            "MaxDR": 7,
            "MinDR": 7
          }
        },
        {
          "CID": "LinkADRReq",
          "DataRate": 6,
          "TXPower": 1,
          "ChMask": "0xffff",
          "ChMaskCnt1": 0
        }
      ]
    }
  }
}
```

20:27:26 923.4 -50 12.8 - CRC_OK LORA 4/5 SF10BW125 3 289 02B6990B 0 2 -

```
{
  "freq": 923400000,
  "chan": 1,
  "tsmt": 619060180,
  "utmat": 1692999246902,
  "rfch": 0,
  "isrc": 1,
  "size": -50,
  "size": 15,
  "modu": "LORA",
  "datr": "SF10BW125",
  "codr": "4/5",
  "spol": 12.8,
  "data": "QNuTqgKLaAWCOQdJXcDYf#BAHTINa8="
}

{
  "MHDR": {
    "MType": "Unconfirmed Data Up",
    "RFU": 0,
    "Major": 0
  },
  "MACPayload": {
    "FHDR": {
      "DevAddr": "02B6990B",
      "FCtrl": {
        "ADR": true,
        "ADRACKReq": false,
        "ClassB": false,
        "ACK": false,
        "FOptsLen": 0
      },
      "FCnt": 3
    },
    "FPort": 0,
    "FPortPayload": "00 1F "
  },
  "MIC": "2F53E363"
}
```

20:25:03 923.8 - - 20 CRC LORA 4/5 SF10BW125 2 330 02B6990B - 0 NewChannelReq

```
{
  "freq": 923800000,
  "mode": "timerstamped",
  "tmsr": 474895717,
  "utmsr": 1692959103176,
  "rfch": 0,
  "pwr": 20,
  "pwr": 8,
  "nrcr": false,
  "modu": "LORA",
  "data": "SF10BW125",
  "codr": "4/5",
  "spol": true,
  "size": 18,
  "data": "YAUZtqHGAgARCEgRjWtRmXVW"
}

{
  "MHDR": {
    "MType": "Unconfirmed Data Down",
    "RFU": 0,
    "Major": 0
  },
  "MACPayload": {
    "FHDR": {
      "DevAddr": "02B6990B",
      "FCtrl": {
        "ADR": true,
        "RFU": 0,
        "Framing": false,
        "ACK": false,
        "FOptLen": 6
      },
      "FChn": 2,
      "FOpts": [
        {
          "CID": "NewChannelReq",
          "ChIndex": 8,
          "Frequency": 924600000,
          "DrRange": {
            "MaxDR": 6,
            "MinDR": 6
          }
        }
      ]
    }
  },
  "MIC": "91981556"
}
```

20:25:03 923.8 -48 13 - CRC_OK LORA 4/5 SF10BW125 2 289 02B6990B 0 4 -

```
{
  "freq": 923800000,
  "chan": 3,
  "tmsr": 473895717,
  "utmsr": 1692959103742,
  "rfch": 0,
  "stat": 1,
  "rssi": -48,
  "size": 17,
  "modu": "LORA",
  "data": "SF10BW125",
  "codr": "4/5",
  "lsm": 13,
  "data": "QAUZtqKAgAAkwiAnq90eQE="
}

{
  "MHDR": {
    "MType": "Unconfirmed Data Up",
    "RFU": 0,
    "Major": 0
  },
  "MACPayload": {
    "FHDR": {
      "DevAddr": "02B6990B",
      "FCtrl": {
        "ADR": true,
        "ADRACKReq": false,
        "ClassB": false,
        "ACK": false,
        "FOptLen": 0
      },
      "FChn": 2,
      "FFrc": 0,
      "FRMPayload": "00 93 08 80 "
    },
    "MIC": "AF46B101"
  }
}
```

20:22:38 924 - - 20 CRC LORA 4/5 SF10BW125 1 371 02B6990B - 0 NewChannelReq LinkADRReq

```
{
  "freq": 924000000,
  "mode": "timerstamped",
  "tmsr": 33066401,
  "utmsr": 1692959595987,
  "rfch": 0,
  "pwr": 20,
  "pwr": 0,
  "nrcr": false,
  "modu": "LORA",
  "data": "SF10BW125",
  "codr": "4/5",
  "spol": true,
  "size": 25,
  "data": "YAUZtqKLAQHsAVjVADIRhAAm1db+Q="
}

{
  "MHDR": {
    "MType": "Unconfirmed Data Down",
    "RFU": 0,
    "Major": 0
  },
  "MACPayload": {
    "FHDR": {
      "DevAddr": "02B6990B",
      "FCtrl": {
        "ADR": true,
        "RFU": 0,
        "Framing": false,
        "ACK": false,
        "FOptLen": 11
      },
      "FChn": 1,
      "FOpts": [
        {
          "CID": "NewChannelReq",
          "ChIndex": 7,
          "Frequency": 924600000,
          "DrRange": {
            "MaxDR": 5,
            "MinDR": 0
          }
        }
      ]
    }
  },
  "MIC": "91981556"
}
```

```
    "CID": "LinkADRReq",
    "Database": 2,
    "TXPower": 0,
    "ChMask": "0x7E00",
    "ChMaskCntl": 0,
    "NbTrans": 0
  }
},
"MIC": "095D6FE4"
}
```

20:22:38 924 -53 12.3 - CRC_OK LORA 4/5 SF10BW125 1 248 02B8990B - 0 -

```
{
  "freq": 924000000,
  "chan": 4,
  "mod": "LORA",
  "dataRate": "SF10BW125",
  "txPwr": 12,
  "modu": "LORA",
  "data": "0x7E00",
  "code": "4/5",
  "size": 12,
  "data": "0x7E00"
}
{
  "MIC": "095D6FE4"
}
```

Time Freq. RSSI SNR TxPwr CRC mod. CR DataRate Fcnt AirTime DevAddr FPort Payload Size MAC Command

20:22:30 923.2 - - 20 CRC LORA 4/5 SF10BW125 - 453 - - - -

```
{
  "freq": 923200000,
  "chan": 0,
  "mod": "LORA",
  "dataRate": "SF10BW125",
  "txPwr": 0,
  "modu": "LORA",
  "data": "0x7E00",
  "code": "4/5",
  "size": 0,
  "data": "0x7E00"
}
{
  "MIC": "548A7F3E"
}
```

20:22:30 923.2 -49 12.8 - CRC_OK LORA 4/5 SF10BW125 - 371 - - - - AppEUI: 00 00 00 00 00 00 00 DevEUI: 35 31 31 39 56 37 82 02

```
{
  "freq": 923200000,
  "chan": 0,
  "mod": "LORA",
  "dataRate": "SF10BW125",
  "txPwr": 0,
  "modu": "LORA",
  "data": "0x7E00",
  "code": "4/5",
  "size": 0,
  "data": "0x7E00"
}
{
  "MIC": "426C3D2D"
}
```