

[illegible]

```
function decodeUplink(input)
{
    const bytes = input.bytes || [];
    const port = input.fPort;

    function readInt16BE(data, index)
    {
        var value = (data[index] << 8) | data[index + 1];

        if (value & 0x8000)
        {
            value -= 0x10000;
        }

        return value;
    }

    function readUint16BE(data, index)
    {
        return (data[index] << 8) | data[index + 1];
    }

    function readUint24BE(data, index)
    {
        return (data[index] * 0x10000) |
            (data[index + 1] << 8) |
            data[index + 2];
    }
}
```

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}

function result(data)
{
    return {
        data: data,
        warnings: [],
        errors: []
    };
}

function error(message)
{
    return {
        data: {},
        warnings: [],
        errors: [message]
    };
}

// Alarm packet - port 1
if (port == 1)
{
    return result({
        Status: bytes[0]
    });
}

// Data packet - port 2
if (port == 2)
{
    // Data packet without status
    if (bytes.length == 8)
    {
        return result({
            Status: 0,
            Temperature: readInt16BE(bytes, 0) / 100,
            Humidity: readUint16BE(bytes, 2) / 100,
            AirPressure: readUint16BE(bytes, 4) / 10,
            BatteryLevel: readUint16BE(bytes, 6)
        });
    }

    // Data packet with status

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if (bytes.length == 9)
{
    return result({
        Status: bytes[0],
        Temperature: readInt16BE(bytes, 1) / 100,
        Humidity: readUInt16BE(bytes, 3) / 100,
        AirPressure: readUInt16BE(bytes, 5) / 10,
        BatteryLevel: readUInt16BE(bytes, 7)
    });
}

// Data packet without status, with logging
record
if (bytes.length == 20)
{
    return result({
        Status: 0,
        Temperature: readInt16BE(bytes, 0) / 100,
        Humidity: readUInt16BE(bytes, 2) / 100,
        AirPressure: readUInt16BE(bytes, 4) / 10,
        BatteryLevel: readUInt16BE(bytes, 6),
        Logging: {
            FCnt: readUInt24BE(bytes, 8),
            Status: bytes[11],
            Temperature: readInt16BE(bytes, 12) /
100,
            Humidity: readUInt16BE(bytes, 14) /
100,
            AirPressure: readUInt16BE(bytes,
16) / 10,
            BatteryLevel: readUInt16BE(bytes, 18)
        }
    });
}

// Data packet with status and logging record
if (bytes.length == 21)
{
    return result({
        Status: bytes[0],
        Temperature: readInt16BE(bytes, 1) / 100,
        Humidity: readUInt16BE(bytes, 3) / 100,
        AirPressure: readUInt16BE(bytes, 5) / 10,
        BatteryLevel: readUInt16BE(bytes, 7),

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        Logging: {
            FCnt: readUint24BE(bytes, 9),
            Status: bytes[12],
            Temperature: readInt16BE(bytes, 13) /
100,
            Humidity: readUint16BE(bytes, 15) /
100,
            AirPressure: readUint16BE(bytes,
17) / 10,
            BatteryLevel: readUint16BE(bytes, 19)
        }
    });
}

// Config packet - port 3
if (port == 3)
{
    const DataRatePlusADR = bytes[4];

    return result({
        Status: bytes[0],
        SendPeriod: bytes[1],
        MoveThr: bytes[2],
        PacketConfirm: bytes[3],
        DataRate: DataRatePlusADR & 0x0F,
        ADRon: Boolean(DataRatePlusADR & 0x80),
        FamilyId: bytes[5],
        ProductId: bytes[6],
        HW: bytes[7] / 10,
        FW: bytes[8] / 10
    });
}
}

```