### Network Package Format

Byte1 – Address of sender node

Byte2 – Command

Byte3-…- Command Parameter

### Network commands – byte1:

|  |  |  |
| --- | --- | --- |
| Command | Description | Parameters |
| 0x00 | Get node type |  |
| 0x01 | Set all config defaults |  |
| 0x02 | Get config value | 01 – Config Address |
| 0x03 | Get config Response | 01 - Value |
| 0x04 | Set config value | 01 - Config Address  02 -n Config value |
| … |  |  |
| 0x20 | Emontx transmit data |  |

### Config Parameters – Common to all nodes:

|  |  |  |
| --- | --- | --- |
| Config Address | Description | Parameters |
| 0x01 | Radio Band | 1 byte |
| 0x02 | Radio Group | 1 byte |
| 0x03 | Radio NodeID | 1 byte |
| 0x04 | Radio SendTo | 1 byte |

### Config Parameters – EmonTX

|  |  |  |
| --- | --- | --- |
| Config Address | Description | Parameters |
| 0x10 | Transmit Interval: (x \* calc interval) | 01 – byte |
| 0x11 | Phase Calibration – Phase 1 | 01 – float (4 bytes) |
| 0x12 | Phase Calibration – Phase 2 | 01 – float (4 bytes) |
| 0x13 | Phase Calibration – Phase 3 | 01 – float (4 bytes) |
| 0x14 | Current Calibration – Phase 1 | 01 – float (4 bytes) |
| 0x15 | Current Calibration – Phase 2 | 01 – float (4 bytes) |
| 0x16 | Current Calibration – Phase 3 | 01 – float (4 bytes) |
| 0x17 | Voltage Calibration – Phase 1 | 01 – float (4 bytes) |
| 0x18 | Voltage Calibration – Phase 1 | 01 – float (4 bytes) |
| 0x19 | Voltage Calibration – Phase 1 | 01 – float (4 bytes) |
| 0x1A | Voltage ( if no voltage sensors are defined) | 01 – float (4 bytes) |

### Node Types

|  |  |  |
| --- | --- | --- |
| Value | Description | Parameters |
| 0x00 | **NanodeRF** | **01 – unsigned char – Version (1 byte)** |
| 0x01 | **EmonTx** | **01 – unsigned char – Version (1 byte)** |
| 0x02 | **EmonGlcd** | **01 – unsigned char – Version (1 byte)** |
| 0x03 |  | **01 – unsigned char – Version (1 byte)** |