

# Veristand UDP Header Definition

| Index | Parameter                              | Description   |
|-------|--|---|
| 0     | Packet Size<br>Type: U16               | This is the number of bytes in the packet. This includes the packet header and the channel data.  |
| 1     | Protocol Revision<br>Type: U8          | Tracks the revision of the Veristand UDP data structuring for this packet. Should be statically set to 1.   |
| 2     | System Definition Version<br>Type: U16 | Tracks the version of the system definition.  |
| 3     | Source Node Name<br>Type: U8 [32]      | A byte array that contains the first 32 characters of the Veristand Controller producing the transmit packet.   |
| 4     | Packet ID<br>Type: U32                 | <b>Transmit:</b> Identifies the index of the packet as identified in the system definition.<br><br><b>Receive:</b> Identifies the index of transmit packet it is expecting to handle.<br><br>Multi-packet transmission is not currently supported on the same port. |
| 5     | Channel Count<br>Type: U32             | Identifies the number of post-header channel data fields are present in the packet.   |
| 6     | Sequence Number<br>Type: U64           | Identifies the current transmit count of the packet. Starts at 0 and increments each time a packet is sent.   |
| 7     | Timestamp<br>Type: DBL                 | <b>Transmit:</b> The current value present on the Timestamp channel for the packet.<br><br><b>Receive:</b> Not actively used at this time by receive packets. This field still needs to be allocated in the header.   |