| Data Name | Native Resolution Bits | Packet Resolution Bit | Packet Format | m | n | Min Value | Max Value | LSB | | Validator |
|---|---|---|---|---|---|---|---|---|---|---|
| CSA Channel 0 | 16 | 10 | unsigned fixed Current | 7 | 3 | 0 | 127.875 | 0.125 | x | TRUE |
| CSA Channel 1 | 16 | 10 | unsigned fixed Current | 7 | 3 | 0 | 127.875 | 0.125 | x | TRUE |
| CSA Channel 2 | 16 | 10 | unsigned fixed Current | 7 | 3 | 0 | 127.875 | 0.125 | x | TRUE |
| CSA Channel 3 | 16 | 10 | unsigned fixed Current | 7 | 3 | 0 | 127.875 | 0.125 | x | TRUE |
| CSA Channel 4 | 16 | 10 | unsigned fixed Current | 7 | 3 | 0 | 127.875 | 0.125 | x | TRUE |
| CSA Channel 5 | 16 | 10 | unsigned fixed Current | 7 | 3 | 0 | 127.875 | 0.125 | x | TRUE |
| CSA Channel 6 | 16 | 10 | unsigned fixed Current | 7 | 3 | 0 | 127.875 | 0.125 | x | TRUE |
| CSA Channel 7 | 16 | 10 | unsigned fixed Current | 7 | 3 | 0 | 127.875 | 0.125 | x | TRUE |
| CSA Channel 8 | 16 | 10 | unsigned fixed Current | 7 | 3 | 0 | 127.875 | 0.125 | x | TRUE |
| CSA Channel 9 | 16 | 10 | unsigned fixed Current | 7 | 3 | 0 | 127.875 | 0.125 | x | TRUE |
| CSA Channel 10 | 16 | 10 | unsigned fixed Current | 7 | 3 | 0 | 127.875 | 0.125 | | TRUE |
| CSA Channel 11 | 16 | 10 | unsigned fixed Current | 7 | 3 | 0 | 127.875 | 0.125 | | TRUE |
| CSA Channel 12 | 16 | 10 | unsigned fixed Current | 7 | 3 | 0 | 127.875 | 0.125 | | TRUE |
| CSA Channel 13 | 16 | 10 | unsigned fixed Current | 7 | 3 | 0 | 127.875 | 0.125 | | TRUE |
| CSA Channel 14 | 16 | 10 | unsigned fixed Current | 7 | 3 | 0 | 127.875 | 0.125 | | TRUE |
| CSA Channel 15 | 16 | 10 | unsigned fixed Current | 7 | 3 | 0 | 127.875 | 0.125 | | TRUE |
| CSA Channel 16 | 16 | 10 | unsigned fixed Current | 7 | 3 | 0 | 127.875 | 0.125 | | TRUE |
| CSA Channel 17 | 16 | 10 | unsigned fixed Current | 7 | 3 | 0 | 127.875 | 0.125 | | TRUE |
| CSA Channel 18 | 16 | 10 | unsigned fixed Current | 7 | 3 | 0 | 127.875 | 0.125 | | TRUE |
| CSA Channel 19 | 16 | 10 | unsigned fixed Current | 7 | 3 | 0 | 127.875 | 0.125 | | TRUE |
| CSA Radio Regulator | 16 | 8 | unsigned fixed Current | 4 | 4 | 0 | 15.9375 | 0.0625 | x | TRUE |
| CSA roboRIO | 16 | 8 | unsigned fixed Current | 4 | 4 | 0 | 15.9375 | 0.0625 | x | TRUE |
| CSA Pneumatics | 16 | 8 | unsigned fixed Current | 5 | 3 | 0 | 31.9375 | 0.0625 | | TRUE |
| CSA Switch Channel | 16 | 8 | unsigned fixed Current | 5 | 3 | 0 | 31.9375 | 0.0625 | | TRUE |
| Volt VBUS | 12 | 12 | unsigned fixed Voltage | 5 | 7 | 0 | 31.9921875 | 0.0078125 | x | TRUE |
| Temperature | 12 | 0 | Whole Degrees C | 0 | 0 | 0 | 0 | 1 | x | TRUE |
| Brownout 0 | 1 | 1 | 1 = Channel Brownout | 1 | 0 | 0 | 1 | 1 | x | TRUE |
| Brownout 1 | 1 | 1 | 1 = Channel Brownout | 1 | 0 | 0 | 1 | 1 | x | TRUE |
| Brownout 2 | 1 | 1 | 1 = Channel Brownout | 1 | 0 | 0 | 1 | 1 | x | TRUE |
| Brownout 3 | 1 | 1 | 1 = Channel Brownout | 1 | 0 | 0 | 1 | 1 | x | TRUE |
| Brownout 4 | 1 | 1 | 1 = Channel Brownout | 1 | 0 | 0 | 1 | 1 | x | TRUE |
| Brownout 5 | 1 | 1 | 1 = Channel Brownout | 1 | 0 | 0 | 1 | 1 | x | TRUE |
| Brownout 6 | 1 | 1 | 1 = Channel Brownout | 1 | 0 | 0 | 1 | 1 | x | TRUE |
| Brownout 7 | 1 | 1 | 1 = Channel Brownout | 1 | 0 | 0 | 1 | 1 | x | TRUE |
| Brownout 8 | 1 | 1 | 1 = Channel Brownout | 1 | 0 | 0 | 1 | 1 | x | TRUE |
| Brownout 9 | 1 | 1 | 1 = Channel Brownout | 1 | 0 | 0 | 1 | 1 | x | TRUE |
| Brownout 10 | 1 | 1 | 1 = Channel Brownout | 1 | 0 | 0 | 1 | 1 | | TRUE |
| Brownout 11 | 1 | 1 | 1 = Channel Brownout | 1 | 0 | 0 | 1 | 1 | | TRUE |
| Brownout 12 | 1 | 1 | 1 = Channel Brownout | 1 | 0 | 0 | 1 | 1 | | TRUE |
| Brownout 13 | 1 | 1 | 1 = Channel Brownout | 1 | 0 | 0 | 1 | 1 | | TRUE |
| Brownout 14 | 1 | 1 | 1 = Channel Brownout | 1 | 0 | 0 | 1 | 1 | | TRUE |
| Brownout 15 | 1 | 1 | 1 = Channel Brownout | 1 | 0 | 0 | 1 | 1 | | TRUE |
| Brownout 16 | 1 | 1 | 1 = Channel Brownout | 1 | 0 | 0 | 1 | 1 | | TRUE |
| Brownout 17 | 1 | 1 | 1 = Channel Brownout | 1 | 0 | 0 | 1 | 1 | | TRUE |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Brownout 18 | 1 | 1 | 1 = Channel Brownout | 1 | 0 | 0 | 1 | 1 | | TRUE |
| Brownout 19 | 1 | 1 | 1 = Channel Brownout | 1 | 0 | 0 | 1 | 1 | | TRUE |
| Brownout Radio | 1 | 1 | 1 = Channel Brownout | 1 | 0 | 0 | 1 | 1 | | TRUE |
| Brownout RIO | 1 | 1 | 1 = Channel Brownout | 1 | 0 | 0 | 1 | 1 | x | TRUE |
| Brownout Pneumatics | 1 | 1 | 1 = Channel Brownout | 1 | 0 | 0 | 1 | 1 | x | TRUE |
| Brownout Switch Channel | 1 | 1 | 1 = Channel Brownout | 1 | 0 | 0 | 1 | 1 | | TRUE |
| Switch 0 Status | 1 | 1 | 1 = Switch Closed | 1 | 0 | 0 | 1 | 1 | x | TRUE |
| Faults | 8 | 8 | | 8 | 0 | 0 | 255 | 1 | | TRUE |
| Sticky Faults | 8 | 8 | | 8 | 0 | 0 | 255 | 1 | | TRUE |
| internalResBattery_mOhms | 0 | 0 | N/A | | | N/A | N/A | N/A | | TRUE |
| Total Current | 17 | 8 | N/A | 8 | 0 | 0 | 255 | 1 | | TRUE |
| Toal Power | 28 | 0 | N/A | | | N/A | N/A | N/A | | TRUE |
| Energy | 28 | 0 | N/A | | | N/A | N/A | N/A | | TRUE |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Total Bits | 522 | 293 | 192 | | | | | | | |
| Number of Frames | 8.15625 | 4.578125 | | | | | | | | |
| Actual Number of Frames | | 5 | | | | | | | | |
| Bits to reduce frames by 1 | | 37 | | | | | | | | |
| Bits remaining in frame | | 27 | | | | | | | | |