| Version | Frame Name | Frame Description | CAN Id | Signal Name | Signal Description | Type | Bit Position | Length (bits) | Scale Factor | Offset | Min | Max | Unit | Frame Length | RTR? | User? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21.0.1 | Status 0 | Periodic status frame 0 | 8051800 | Channel 0 Current | Current from PDH Channel 0 | Float | 0 | 10 | 0.125 | 0 | 0 | 127.875 | A | 8 | N | Y |
| 21.0.1 | | | 8051800 | Channel 1 Current | Current from PDH Channel 1 | Float | 10 | 10 | 0.125 | 0 | 0 | 127.875 | A | 8 | N | Y |
| 21.0.1 | | | 8051800 | Channel 2 Current | Current from PDH Channel 2 | Float | 20 | 10 | 0.125 | 0 | 0 | 127.875 | A | 8 | N | Y |
| 21.0.1 | | | 8051800 | Channel 0 Breaker Fault | The breaker is currently tripped or disconnected on PDH Channel 0 | Unsigned | 30 | 1 | 1 | 0 | 0 | 1 | | 8 | N | Y |
| 21.0.1 | | | 8051800 | Channel 1 Breaker Fault | The breaker is currently tripped or disconnected on PDH Channel 1 | Unsigned | 31 | 1 | 1 | 0 | 0 | 1 | | 8 | N | Y |
| 21.0.1 | | | 8051800 | Channel 3 Current | Current from PDH Channel 3 | Float | 32 | 10 | 0.125 | 0 | 0 | 127.875 | A | 8 | N | Y |
| 21.0.1 | | | 8051800 | Channel 4 Current | Current from PDH Channel 4 | Float | 42 | 10 | 0.125 | 0 | 0 | 127.875 | A | 8 | N | Y |
| 21.0.1 | | | 8051800 | Channel 5 Current | Current from PDH Channel 5 | Float | 52 | 10 | 0.125 | 0 | 0 | 127.875 | A | 8 | N | Y |
| 21.0.1 | | | 8051800 | Channel 2 Breaker Fault | The breaker is currently tripped or disconnected on PDH Channel 2 | Unsigned | 62 | 1 | 1 | 0 | 0 | 1 | | 8 | N | Y |
| 21.0.1 | | | 8051800 | Channel 3 Breaker Fault | The breaker is currently tripped or disconnected on PDH Channel 3 | Unsigned | 63 | 1 | 1 | 0 | 0 | 1 | | 8 | N | Y |
| 21.0.1 | Status 1 | Periodic status frame 1 | 8051840 | Channel 6 Current | Current from PDH Channel 6 | Float | 0 | 10 | 0.125 | 0 | 0 | 127.875 | A | 8 | N | Y |
| 21.0.1 | | | 8051840 | Channel 7 Current | Current from PDH Channel 7 | Float | 10 | 10 | 0.125 | 0 | 0 | 127.875 | A | 8 | N | Y |
| 21.0.1 | | | 8051840 | Channel 8 Current | Current from PDH Channel 8 | Float | 20 | 10 | 0.125 | 0 | 0 | 127.875 | A | 8 | N | Y |
| 21.0.1 | | | 8051840 | Channel 4 Breaker Fault | The breaker is currently tripped or disconnected on PDH Channel 4 | Unsigned | 30 | 1 | 1 | 0 | 0 | 1 | | 8 | N | Y |
| 21.0.1 | | | 8051840 | Channel 5 Breaker Fault | The breaker is currently tripped or disconnected on PDH Channel 5 | Unsigned | 31 | 1 | 1 | 0 | 0 | 1 | | 8 | N | Y |
| 21.0.1 | | | 8051840 | Channel 9 Current | Current from PDH Channel 9 | Float | 32 | 10 | 0.125 | 0 | 0 | 127.875 | A | 8 | N | Y |
| 21.0.1 | | | 8051840 | Channel 10 Current | Current from PDH Channel 10 | Float | 42 | 10 | 0.125 | 0 | 0 | 127.875 | A | 8 | N | Y |
| 21.0.1 | | | 8051840 | Channel 11 Current | Current from PDH Channel 11 | Float | 52 | 10 | 0.125 | 0 | 0 | 127.875 | A | 8 | N | Y |
| 21.0.1 | | | 8051840 | Channel 6 Breaker Fault | The breaker is currently tripped or disconnected on PDH Channel 6 | Unsigned | 62 | 1 | 1 | 0 | 0 | 1 | | 8 | N | Y |
| 21.0.1 | | | 8051840 | Channel 7 Breaker Fault | The breaker is currently tripped or disconnected on PDH Channel 7 | Unsigned | 63 | 1 | 1 | 0 | 0 | 1 | | 8 | N | Y |
| 21.0.1 | Status 2 | Periodic status frame 2 | 8051880 | Channel 12 Current | Current from PDH Channel 12 | Float | 0 | 10 | 0.125 | 0 | 0 | 127.875 | A | 8 | N | Y |
| 21.0.1 | | | 8051880 | Channel 13 Current | Current from PDH Channel 13 | Float | 10 | 10 | 0.125 | 0 | 0 | 127.875 | A | 8 | N | Y |
| 21.0.1 | | | 8051880 | Channel 14 Current | Current from PDH Channel 14 | Float | 20 | 10 | 0.125 | 0 | 0 | 127.875 | A | 8 | N | Y |
| 21.0.1 | | | 8051880 | Channel 8 Breaker Fault | The breaker is currently tripped or disconnected on PDH Channel 8 | Unsigned | 30 | 1 | 1 | 0 | 0 | 1 | | 8 | N | Y |
| 21.0.1 | | | 8051880 | Channel 9 Breaker Fault | The breaker is currently tripped or disconnected on PDH Channel 9 | Unsigned | 31 | 1 | 1 | 0 | 0 | 1 | | 8 | N | Y |
| 21.0.1 | | | 8051880 | Channel 15 Current | Current from PDH Channel 15 | Float | 32 | 10 | 0.125 | 0 | 0 | 127.875 | A | 8 | N | Y |
| 21.0.1 | | | 8051880 | Channel 16 Current | Current from PDH Channel 16 | Float | 42 | 10 | 0.125 | 0 | 0 | 127.875 | A | 8 | N | Y |
| 21.0.1 | | | 8051880 | Channel 17 Current | Current from PDH Channel 17 | Float | 52 | 10 | 0.125 | 0 | 0 | 127.875 | A | 8 | N | Y |
| 21.0.1 | | | 8051880 | Channel 10 Breaker Fault | The breaker is currently tripped or disconnected on PDH Channel 10 | Unsigned | 62 | 1 | 1 | 0 | 0 | 1 | | 8 | N | Y |
| 21.0.1 | | | 8051880 | Channel 11 Breaker Fault | The breaker is currently tripped or disconnected on PDH Channel 11 | Unsigned | 63 | 1 | 1 | 0 | 0 | 1 | | 8 | N | Y |
| 21.0.1 | Status 3 | Periodic status frame 3 | 80518C0 | Channel 18 Current | Current from PDH Channel 18 | Float | 0 | 10 | 0.125 | 0 | 0 | 127.875 | A | 8 | N | Y |
| 21.0.1 | | | 80518C0 | Channel 19 Current | Current from PDH Channel 19 | Float | 10 | 10 | 0.125 | 0 | 0 | 127.875 | A | 8 | N | Y |
| 21.0.1 | | | 80518C0 | Channel 12 Breaker Fault | The breaker is currently tripped or disconnected on PDH Channel 12 | Unsigned | 20 | 1 | 1 | 0 | 0 | 1 | | 8 | N | Y |
| 21.0.1 | | | 80518C0 | Channel 13 Breaker Fault | The breaker is currently tripped or disconnected on PDH Channel 13 | Unsigned | 21 | 1 | 1 | 0 | 0 | 1 | | 8 | N | Y |
| 21.0.1 | | | 80518C0 | Channel 14 Breaker Fault | The breaker is currently tripped or disconnected on PDH Channel 14 | Unsigned | 22 | 1 | 1 | 0 | 0 | 1 | | 8 | N | Y |
| 21.0.1 | | | 80518C0 | Channel 15 Breaker Fault | The breaker is currently tripped or disconnected on PDH Channel 15 | Unsigned | 23 | 1 | 1 | 0 | 0 | 1 | | 8 | N | Y |
| 21.0.1 | | | 80518C0 | Channel 20 Current | Current from PDH Channel 20 | Float | 24 | 8 | 0.125 | 0 | 0 | 31.9375 | A | 8 | N | Y |
| 21.0.1 | | | 80518C0 | Channel 21 Current | Current from PDH Channel 21 | Float | 32 | 8 | 0.125 | 0 | 0 | 31.9375 | A | 8 | N | Y |
| 21.0.1 | | | 80518C0 | Channel 22 Current | Current from PDH Channel 22 | Float | 40 | 8 | 0.125 | 0 | 0 | 31.9375 | A | 8 | N | Y |
| 21.0.1 | | | 80518C0 | Channel 23 Current | Current from PDH Channel 23 | Float | 48 | 8 | 0.125 | 0 | 0 | 31.9375 | A | 8 | N | Y |
| 21.0.1 | | | 80518C0 | Channel 16 Breaker Fault | The breaker is currently tripped or disconnected on PDH Channel 16 | Unsigned | 56 | 1 | 1 | 0 | 0 | 1 | | 8 | N | Y |
| 21.0.1 | | | 80518C0 | Channel 17 Breaker Fault | The breaker is currently tripped or disconnected on PDH Channel 17 | Unsigned | 57 | 1 | 1 | 0 | 0 | 1 | | 8 | N | Y |
| 21.0.1 | | | 80518C0 | Channel 18 Breaker Fault | The breaker is currently tripped or disconnected on PDH Channel 18 | Unsigned | 58 | 1 | 1 | 0 | 0 | 1 | | 8 | N | Y |
| 21.0.1 | | | 80518C0 | Channel 19 Breaker Fault | The breaker is currently tripped or disconnected on PDH Channel 19 | Unsigned | 59 | 1 | 1 | 0 | 0 | 1 | | 8 | N | Y |
| 21.0.1 | | | 80518C0 | Channel 20 Breaker Fault | The breaker is currently tripped or disconnected on PDH Channel 20 | Unsigned | 60 | 1 | 1 | 0 | 0 | 1 | | 8 | N | Y |
| 21.0.1 | | | 80518C0 | Channel 21 Breaker Fault | The breaker is currently tripped or disconnected on PDH Channel 21 | Unsigned | 61 | 1 | 1 | 0 | 0 | 1 | | 8 | N | Y |
| 21.0.1 | | | 80518C0 | Channel 22 Breaker Fault | The breaker is currently tripped or disconnected on PDH Channel 22 | Unsigned | 62 | 1 | 1 | 0 | 0 | 1 | | 8 | N | Y |
| 21.0.1 | | | 80518C0 | Channel 23 Breaker Fault | The breaker is currently tripped or disconnected on PDH Channel 23 | Unsigned | 63 | 1 | 1 | 0 | 0 | 1 | | 8 | N | Y |
| 21.0.1 | Status 4 | Periodic status frame 4 | 8051900 | VBus | Bus voltage | Float | 0 | 12 | 0.0078125 | 0 | 0 | 31.99218 | V | 8 | N | Y |
| 21.0.1 | | | 8051900 | System Enabled | The system is enabled | Unsigned | 12 | 1 | 1 | 0 | 0 | 1 | | 8 | N | Y |
| 21.1.6 | | | 8051900 | RoboRIO Present | A roboRIO is currently connected | Unsigned | 13 | 1 | 1 | 0 | 0 | 1 | | 8 | N | Y |
| 21.0.1 | | | 8051900 | RSVD0 | Reserved Bits | Unsigned | 14 | 2 | 1 | 0 | 0 | | | 8 | N | Y |
| 21.1.0 | | | 8051900 | Brownout Fault | The input voltage is below specified minimum voltage | Unsigned | 16 | 1 | 1 | 0 | 0 | | | 8 | N | Y |
| 21.1.0 | | | 8051900 | RSVD1 | Reserved Bits | Unsigned | 17 | 1 | 1 | 0 | 0 | | | 8 | N | Y |
| 21.1.0 | | | 8051900 | CAN Warning Fault | CAN RX or TX error levels has exceeded the warning threshold | Unsigned | 18 | 1 | 1 | 0 | 0 | | | 8 | N | Y |
| 21.0.1 | | | 8051900 | Hardware Fault | The device has malfunctioned | Unsigned | 19 | 1 | 1 | 0 | 0 | | | 8 | N | Y |
| 21.0.1 | | | 8051900 | Switch Channel State | The switch channel commanded state | Unsigned | 20 | 1 | 1 | 0 | 0 | | | 8 | N | Y |
| 21.1.0 | | | 8051900 | Sticky Brownout Fault | The input voltage has gone blow specified minimum voltage | Unsigned | 21 | 1 | 1 | 0 | 0 | | | 8 | N | Y |
| 21.1.0 | | | 8051900 | RSVD2 | Reserved Bits | Unsigned | 22 | 1 | 1 | 0 | 0 | | | 8 | N | Y |
| 21.1.0 | | | 8051900 | Sticky CAN Warning Fault | CAN RX or TX error levels have exceeded the warning threshold | Unsigned | 23 | 1 | 1 | 0 | 0 | | | 8 | N | Y |
| 21.1.0 | | | 8051900 | Sticky CAN Bus Off Fault | The CAN bus has previously experienced a 'Bus Off' event | Unsigned | 24 | 1 | 1 | 0 | 0 | | | 8 | N | Y |
| 21.1.0 | | | 8051900 | Sticky Hardware Fault | The device has malfunctioned | Unsigned | 25 | 1 | 1 | 0 | 0 | | | 8 | N | Y |
| 21.1.0 | | | 8051900 | Sticky Firmware Fault | The device firmware malfunctioned and reset during operation | Unsigned | 26 | 1 | 1 | 0 | 0 | | | 8 | N | Y |

| Version | Frame Name | Frame Description | CAN Id | Signal Name | Signal Description | Type | Bit Position | Length (bits) | Scale Factor | Offset | Min | Max | Unit | Frame Length | RTR? | User? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21.1.0 | | | 8051900 | Sticky CH20 Breaker Fault | The breaker has been tripped or disconnected on PDH Channel 20 | Unsigned | 27 | 1 | 1 | 0 | 0 | | | 8 | N | Y |
| 21.1.0 | | | 8051900 | Sticky CH21 Breaker Fault | The breaker has been tripped or disconnected on PDH Channel 21 | Unsigned | 28 | 1 | 1 | 0 | 0 | | | 8 | N | Y |
| 21.1.0 | | | 8051900 | Sticky CH22 Breaker Fault | The breaker has been tripped or disconnected on PDH Channel 22 | Unsigned | 29 | 1 | 1 | 0 | 0 | | | 8 | N | Y |
| 21.1.0 | | | 8051900 | Sticky CH23 Breaker Fault | The breaker has been tripped or disconnected on PDH Channel 23 | Unsigned | 30 | 1 | 1 | 0 | 0 | | | 8 | N | Y |
| 21.1.0 | | | 8051900 | Sticky Has Reset Fault | The device has reset | Unsigned | 31 | 1 | 1 | 0 | 0 | | | 8 | N | Y |
| 21.0.1 | | | 8051900 | Total Current | Total current measured by the device | Unsigned | 32 | 8 | 2 | 0 | 0 | 510 | A | 8 | N | Y |
| 21.1.2 | | | 8051900 | Sticky CH0 Breaker Fault | The breaker has been tripped or disconnected on PDH Channel 0 | Unsigned | 40 | 1 | 1 | 0 | 0 | | | 8 | N | Y |
| 21.1.2 | | | 8051900 | Sticky CH1 Breaker Fault | The breaker has been tripped or disconnected on PDH Channel 1 | Unsigned | 41 | 1 | 1 | 0 | 0 | | | 8 | N | Y |
| 21.1.2 | | | 8051900 | Sticky CH2 Breaker Fault | The breaker has been tripped or disconnected on PDH Channel 2 | Unsigned | 42 | 1 | 1 | 0 | 0 | | | 8 | N | Y |
| 21.1.2 | | | 8051900 | Sticky CH3 Breaker Fault | The breaker has been tripped or disconnected on PDH Channel 3 | Unsigned | 43 | 1 | 1 | 0 | 0 | | | 8 | N | Y |
| 21.1.2 | | | 8051900 | Sticky CH4 Breaker Fault | The breaker has been tripped or disconnected on PDH Channel 4 | Unsigned | 44 | 1 | 1 | 0 | 0 | | | 8 | N | Y |
| 21.1.2 | | | 8051900 | Sticky CH5 Breaker Fault | The breaker has been tripped or disconnected on PDH Channel 5 | Unsigned | 45 | 1 | 1 | 0 | 0 | | | 8 | N | Y |
| 21.1.2 | | | 8051900 | Sticky CH6 Breaker Fault | The breaker has been tripped or disconnected on PDH Channel 6 | Unsigned | 46 | 1 | 1 | 0 | 0 | | | 8 | N | Y |
| 21.1.2 | | | 8051900 | Sticky CH7 Breaker Fault | The breaker has been tripped or disconnected on PDH Channel 7 | Unsigned | 47 | 1 | 1 | 0 | 0 | | | 8 | N | Y |
| 21.1.2 | | | 8051900 | Sticky CH8 Breaker Fault | The breaker has been tripped or disconnected on PDH Channel 8 | Unsigned | 48 | 1 | 1 | 0 | 0 | | | 8 | N | Y |
| 21.1.2 | | | 8051900 | Sticky CH9 Breaker Fault | The breaker has been tripped or disconnected on PDH Channel 9 | Unsigned | 49 | 1 | 1 | 0 | 0 | | | 8 | N | Y |
| 21.1.2 | | | 8051900 | Sticky CH10 Breaker Fault | The breaker has been tripped or disconnected on PDH Channel 1 | Unsigned | 50 | 1 | 1 | 0 | 0 | | | 8 | N | Y |
| 21.1.2 | | | 8051900 | Sticky CH11 Breaker Fault | The breaker has been tripped or disconnected on PDH Channel 11 | Unsigned | 51 | 1 | 1 | 0 | 0 | | | 8 | N | Y |
| 21.1.2 | | | 8051900 | Sticky CH12 Breaker Fault | The breaker has been tripped or disconnected on PDH Channel 12 | Unsigned | 52 | 1 | 1 | 0 | 0 | | | 8 | N | Y |
| 21.1.2 | | | 8051900 | Sticky CH13 Breaker Fault | The breaker has been tripped or disconnected on PDH Channel 13 | Unsigned | 53 | 1 | 1 | 0 | 0 | | | 8 | N | Y |
| 21.1.2 | | | 8051900 | Sticky CH14 Breaker Fault | The breaker has been tripped or disconnected on PDH Channel 14 | Unsigned | 54 | 1 | 1 | 0 | 0 | | | 8 | N | Y |
| 21.1.2 | | | 8051900 | Sticky CH15 Breaker Fault | The breaker has been tripped or disconnected on PDH Channel 15 | Unsigned | 55 | 1 | 1 | 0 | 0 | | | 8 | N | Y |
| 21.1.2 | | | 8051900 | Sticky CH16 Breaker Fault | The breaker has been tripped or disconnected on PDH Channel 16 | Unsigned | 56 | 1 | 1 | 0 | 0 | | | 8 | N | Y |
| 21.1.2 | | | 8051900 | Sticky CH17 Breaker Fault | The breaker has been tripped or disconnected on PDH Channel 17 | Unsigned | 57 | 1 | 1 | 0 | 0 | | | 8 | N | Y |
| 21.1.2 | | | 8051900 | Sticky CH18 Breaker Fault | The breaker has been tripped or disconnected on PDH Channel 18 | Unsigned | 58 | 1 | 1 | 0 | 0 | | | 8 | N | Y |
| 21.1.2 | | | 8051900 | Sticky CH19 Breaker Fault | The breaker has been tripped or disconnected on PDH Channel 19 | Unsigned | 59 | 1 | 1 | 0 | 0 | | | 8 | N | Y |
| 21.0.1 | Set Switch Channel | Set the switch channel output | 8050840 | Output Set Value | Enable/Disable the switch channel | Unsigned | 0 | 1 | 1 | 0 | 0 | | | 1 | N | Y |
| | | | | | | | | | | | | | | | | |
| 21.0.1 | Version | Get the version of the PDH device | 8052600 | Firmware Fix | Fix version of the device firmware | Unsigned | 0 | 8 | 1 | 0 | 0 | | | 8 | Y | Y |
| 21.0.1 | | | 8052600 | Firmware Minor | Minor version of the device firmware | Unsigned | 8 | 8 | 1 | 0 | 0 | | | 8 | Y | Y |
| 21.0.1 | | | 8052600 | Firmware Year | Major or year release of the device firmware | Unsigned | 16 | 8 | 1 | 0 | 0 | | | 8 | Y | Y |
| 21.0.1 | | | 8052600 | Hardware Minor | Minor version of the device hardware | Unsigned | 24 | 8 | 1 | 0 | 0 | | | 8 | Y | Y |
| 21.1.5 | | | 8052600 | Hardware Major | Major version of the device hardware | Unsigned | 32 | 8 | 1 | 0 | 0 | | | 8 | Y | Y |
| 21.0.1 | | | 8052600 | Unique ID | Device Unique ID | Unsigned | 40 | 24 | 1 | 0 | 0 | | | 8 | Y | Y |
| 21.1.0 | Clear Faults | Clear sticky faults on the device | 8051B80 | | | | | | | | | | | 0 | N | Y |