

# **iKommunicate Diagnostic LED Sequences**

**V1.00**

**19<sup>th</sup> Feb 2016**

## **No Power to iKommunicate**

- > No LEDs

## **Normal Boot**

- > No LEDs for 1 sec
- > After 1 sec the Yellow and Green RJ45 LEDs flash ON
- > After 2 secs All External LEDs flash ON
- > Then just the external Status LED ON
- > After 5 secs the Error LED will flash quickly while it tries to get an NMEA2000 Bus address
- > At the same time the Status LED will flash slowly as it tries to get an Ethernet IP Address
- > Within 10 secs, if everything is OK, the Status LED will illuminate permanently

## **No Ethernet Network**

- > After 2 secs all external LEDs will flash once
- > The RJ45 LEDs will be permanently OFF
- > After 30 secs the Error LED will flash rapidly a few times while the Status LED flashes slowly
- > The Status LED will illuminate permanently

## **No DHCP *i.e. connected directly to PC***

- > No LEDs for 2 sec
- > After 2 secs All External LEDs flash ON
- > Then just the external Status LED ON
- > After 5 secs the Error LED will flash quickly while it tries to get an IP address
- > At the same time the Status LED will flash slowly
- > Within 20 secs, the Status LED will illuminate permanently

NOTE - Once iKommunicate has self assigned itself an IP address, it is possible to "find it" on the PC it is connected to (assuming this also has a self assigned IP address) using Bonjour/mDNS or Windows SDDP.

## **No SD Card**

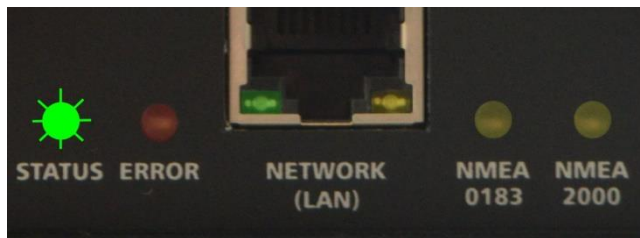
- > Currently no external or internal indication for this condition

## **No N2K Network Power**

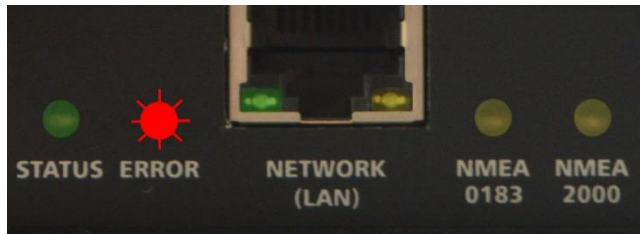
- > No external indication
- > After 30 secs, the Internal LED 7 (Red) will illuminate

## **No N2K Data but Power and Devices Present**

- > No NMEA2000 LED activity at all and internal LED 7 (Red) not illuminated



Flashing Status = Acquiring Network IP Address



Flashing Error = Acquiring NMEA2000 Address or NMEA2000 network problem



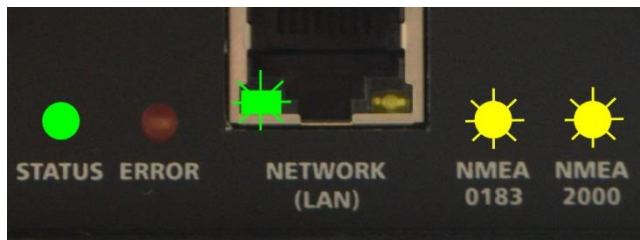
All Flashing = Application has crashed



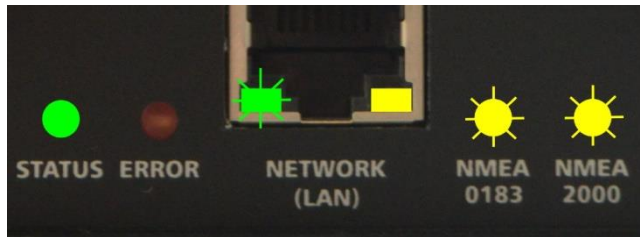
Error ON = a network condition is making it impossible to access iKommunicate



Status ON + Error Flashing = NMEA2000 network no longer available



Normal Operation 10Base-T



Normal Operation 100Base-TX