This buffer routes USB serial port signals to modem UART and disables onboard MCU.

This header selects behavior of USB serial port, shorting pins 1 & 2 ties modem directly to serial port, Arduino and external CPU on J8 must not be used. Leaving J6 jumper off allows for Arduino or external CPU connection. Removing jumper from all pins on J6 allows external CPU/MCU to be connected directly to modem at TTL levels either as an Arduino shield or generic interface on 14 pin connector J8.
USE THIS HEADER AND PROVIDED 14PIN CABLE TO CONNECT TO ANY MCU OR CPU DEVELOPMENT KIT
VOUT = 0.765 x (1 + R1/R2)

ERJ-3EKF2312V

ERJ-3EKF2212V

VOLTAGE_FEED_BACK

VOUT = 0.765 x (1 + R1/R2)

ERJ-3EKF2212V

ERJ-3EKF2312V

12V POWER PRESENT LED

D4 APD3224SGC-F01

12V POWER PRESENT LED

D5 APD3224SGC-F01

SOFTSTART VOLTAGE_FEEDBACK

ENABLE

SW

SW

TPS54229DDA

DGND

DGND

DGND

VIN_12V

DGND

DGND

VIN_12V

VIN_12V

12V POWER PRESENT LED

D4 APD3224SGC-F01

ERJ-3EKF9312V

4V POWER PRESENT LED

D5 APD3224SGC-F01

Skywire Development Kit

Title

NimbeLink

Size

Document Number

Rev

Date

Sheet