

<span style="background-color: red; color: black;"> </span> Alimentación	<span style="background-color: yellow; color: black;"> </span> Control e ISP
<span style="background-color: black; color: white;"> </span> Tierra Digital	<span style="background-color: blue; color: white;"> </span> Ethernet
<span style="background-color: brown; color: black;"> </span> Pin E/S GPIO	<span style="background-color: lightblue; color: black;"> </span> Pin Serie
<span style="background-color: purple; color: white;"> </span> Tierra Analógica	<span style="background-color: lightgreen; color: black;"> </span> Pin LCD
<span style="background-color: green; color: black;"> </span> Pin Analógico	<span style="background-color: orange; color: black;"> </span> Pin Teclado

**NOTA:** Los pines de LCD y teclado son GPIOs comunes sin ningún periférico interno especial, es simplemente el nombre que se eligió para dichos pines. Existen otros modelos de microcontroladores LPC dentro de la misma familia que incluyen un periférico para control de LCD gráfico (que el LPC 4337 no incluye) lo cual conlleva a confusiones.



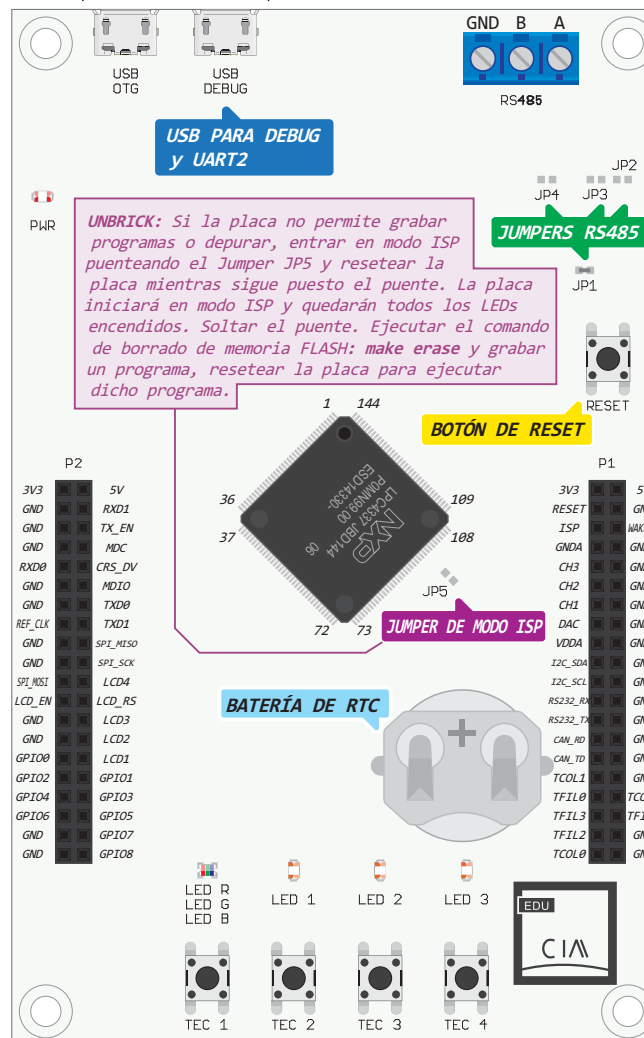
con suerte se puede sacar 500mA

**Jumpers RS485**  
JP1 - Abierto permite recibir un eco local de lo transmitido.  
Cortocircuitar para no recibir eco (default).  
JP2, JP3 y JP4 - Cortocircuitar en caso que sea el último nodo de la red.

P2

<span style="background-color: red; color: black;"> </span> 3V3	1	2	<span style="background-color: red; color: black;"> </span> 5V
<span style="background-color: black; color: white;"> </span> GND	3	4	<span style="background-color: blue; color: white;"> </span> RXD1
<span style="background-color: black; color: white;"> </span> GND	5	6	<span style="background-color: blue; color: white;"> </span> TX_EN
<span style="background-color: black; color: white;"> </span> GND	7	8	<span style="background-color: blue; color: white;"> </span> MDC
<span style="background-color: blue; color: white;"> </span> RXD0	9	10	<span style="background-color: blue; color: white;"> </span> CRS_DV
<span style="background-color: black; color: white;"> </span> GND	11	12	<span style="background-color: blue; color: white;"> </span> MDIO
<span style="background-color: black; color: white;"> </span> GND	13	14	<span style="background-color: blue; color: white;"> </span> TXD0
<span style="background-color: blue; color: white;"> </span> REF_CLK	15	16	<span style="background-color: blue; color: white;"> </span> TXD1
<span style="background-color: black; color: white;"> </span> GND	17	18	<span style="background-color: blue; color: white;"> </span> SPI_MISO
<span style="background-color: black; color: white;"> </span> GND	19	20	<span style="background-color: blue; color: white;"> </span> SPI_SCK
<span style="background-color: blue; color: white;"> </span> SPI_MOSI	21	22	<span style="background-color: green; color: black;"> </span> LCD4
<span style="background-color: green; color: black;"> </span> LCD_EN	23	24	<span style="background-color: green; color: black;"> </span> LCD_RS
<span style="background-color: black; color: white;"> </span> GND	25	26	<span style="background-color: green; color: black;"> </span> LCD3
<span style="background-color: black; color: white;"> </span> GND	27	28	<span style="background-color: green; color: black;"> </span> LCD2
<span style="background-color: brown; color: black;"> </span> GPIO0	29	30	<span style="background-color: green; color: black;"> </span> LCD1
<span style="background-color: brown; color: black;"> </span> GPIO2	31	32	<span style="background-color: brown; color: black;"> </span> GPIO1
<span style="background-color: brown; color: black;"> </span> GPIO4	33	34	<span style="background-color: brown; color: black;"> </span> GPIO3
<span style="background-color: brown; color: black;"> </span> GPIO6	35	36	<span style="background-color: brown; color: black;"> </span> GPIO5
<span style="background-color: black; color: white;"> </span> GND	37	38	<span style="background-color: brown; color: black;"> </span> GPIO7
<span style="background-color: black; color: white;"> </span> GND	39	40	<span style="background-color: brown; color: black;"> </span> GPIO8

Tira de 40 pines hembra de 0.1" (2,54 mm) de espaciado

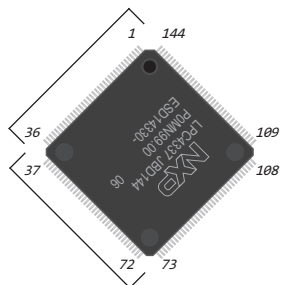
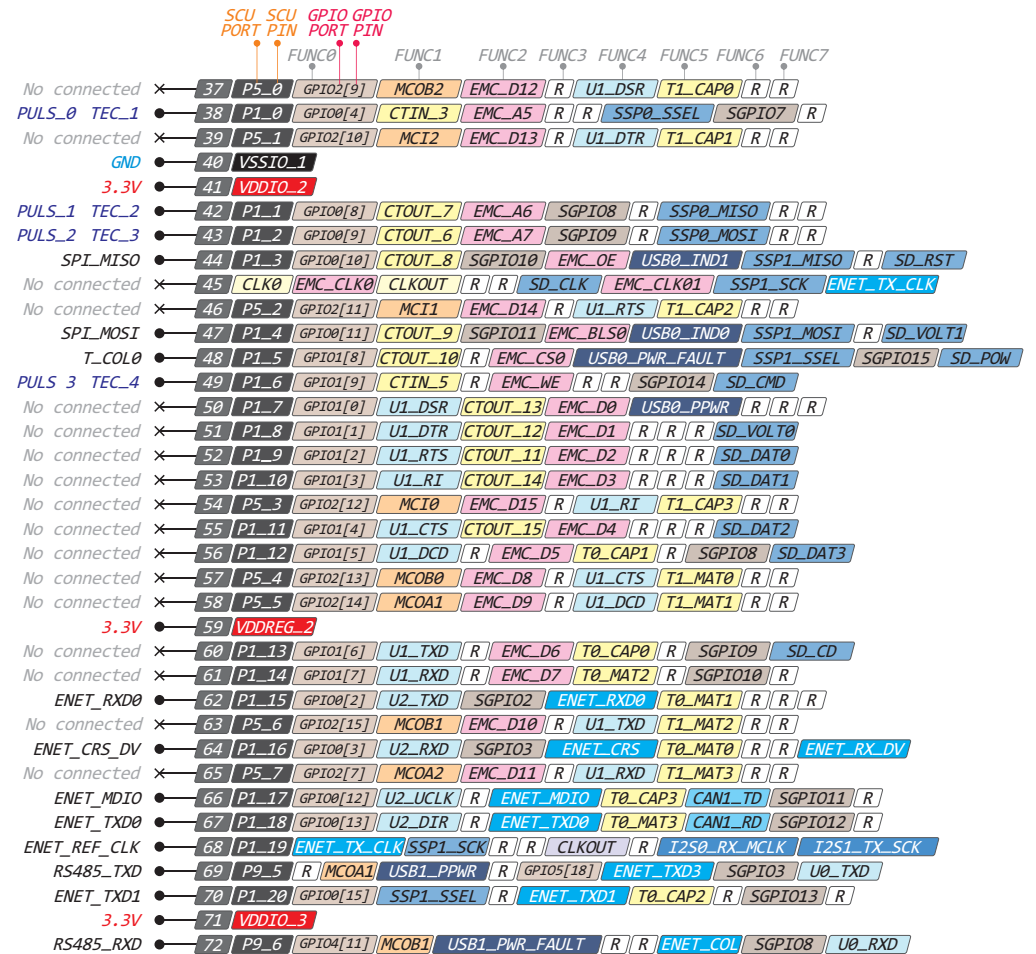
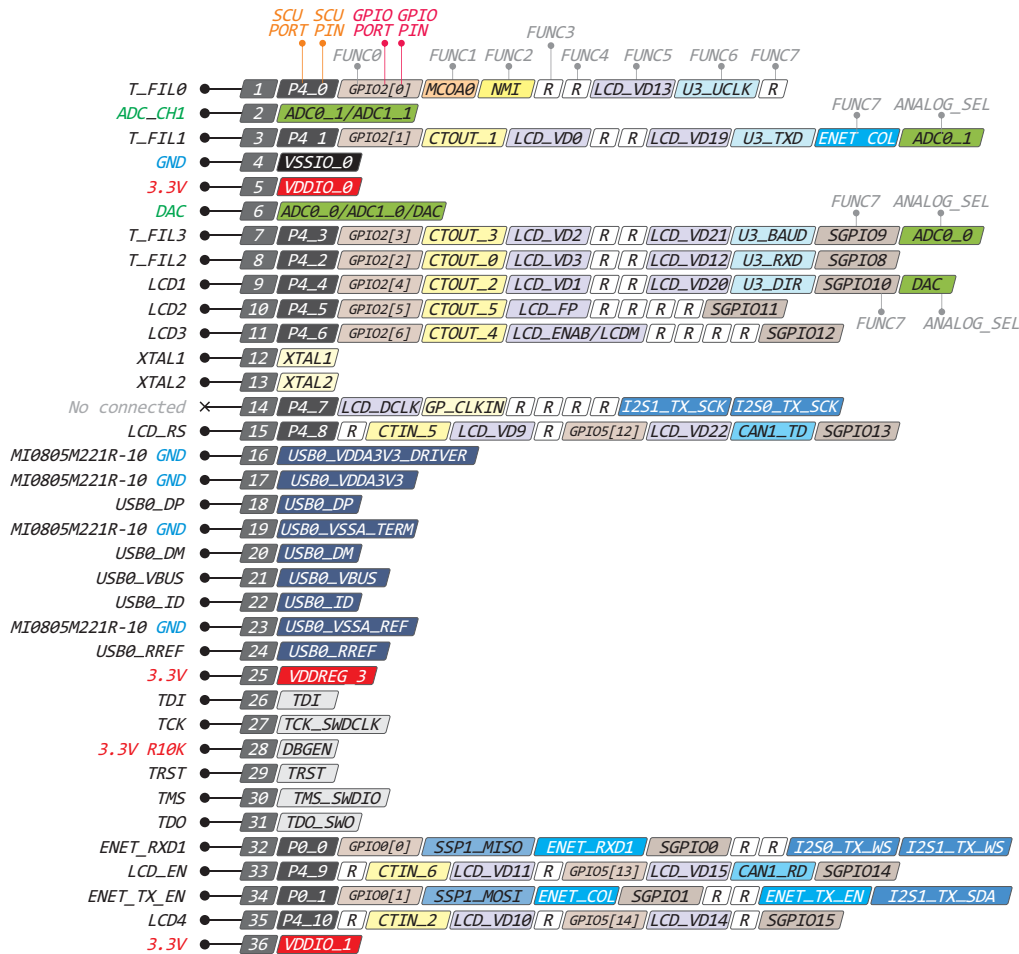




























P1

<span style="background-color: red; color: black;"> </span> 3V3	1	2	<span style="background-color: red; color: black;"> </span> 5V
<span style="background-color: yellow; color: black;"> </span> RESET	3	4	<span style="background-color: black; color: white;"> </span> GND
<span style="background-color: yellow; color: black;"> </span> ISP	5	6	<span style="background-color: yellow; color: black;"> </span> WAKEUP
<span style="background-color: purple; color: white;"> </span> GND_A	7	8	<span style="background-color: purple; color: white;"> </span> GND_A
<span style="background-color: green; color: black;"> </span> CH3	9	10	<span style="background-color: purple; color: white;"> </span> GND_A
<span style="background-color: green; color: black;"> </span> CH2	11	12	<span style="background-color: purple; color: white;"> </span> GND_A
<span style="background-color: green; color: black;"> </span> CH1	13	14	<span style="background-color: purple; color: white;"> </span> GND_A
<span style="background-color: green; color: black;"> </span> DAC	15	16	<span style="background-color: purple; color: white;"> </span> GND_A
<span style="background-color: green; color: black;"> </span> VDDA	17	18	<span style="background-color: purple; color: white;"> </span> GND_A
<span style="background-color: blue; color: white;"> </span> I2C_SDA	19	20	<span style="background-color: black; color: white;"> </span> GND
<span style="background-color: blue; color: white;"> </span> I2C_SCL	21	22	<span style="background-color: black; color: white;"> </span> GND
<span style="background-color: blue; color: white;"> </span> RS232_RX	23	24	<span style="background-color: black; color: white;"> </span> GND
<span style="background-color: blue; color: white;"> </span> RS232_TX	25	26	<span style="background-color: black; color: white;"> </span> GND
<span style="background-color: blue; color: white;"> </span> CAN_RD	27	28	<span style="background-color: black; color: white;"> </span> GND
<span style="background-color: blue; color: white;"> </span> CAN_TD	29	30	<span style="background-color: black; color: white;"> </span> GND
<span style="background-color: orange; color: black;"> </span> TC0L1	31	32	<span style="background-color: black; color: white;"> </span> GND
<span style="background-color: orange; color: black;"> </span> TFIL0	33	34	<span style="background-color: orange; color: black;"> </span> TC0L2
<span style="background-color: orange; color: black;"> </span> TFIL3	35	36	<span style="background-color: orange; color: black;"> </span> TFIL1
<span style="background-color: orange; color: black;"> </span> TC0L0	39	40	<span style="background-color: black; color: white;"> </span> GND

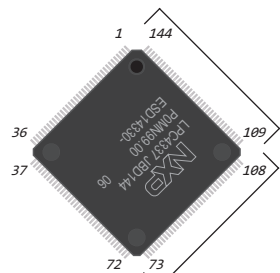
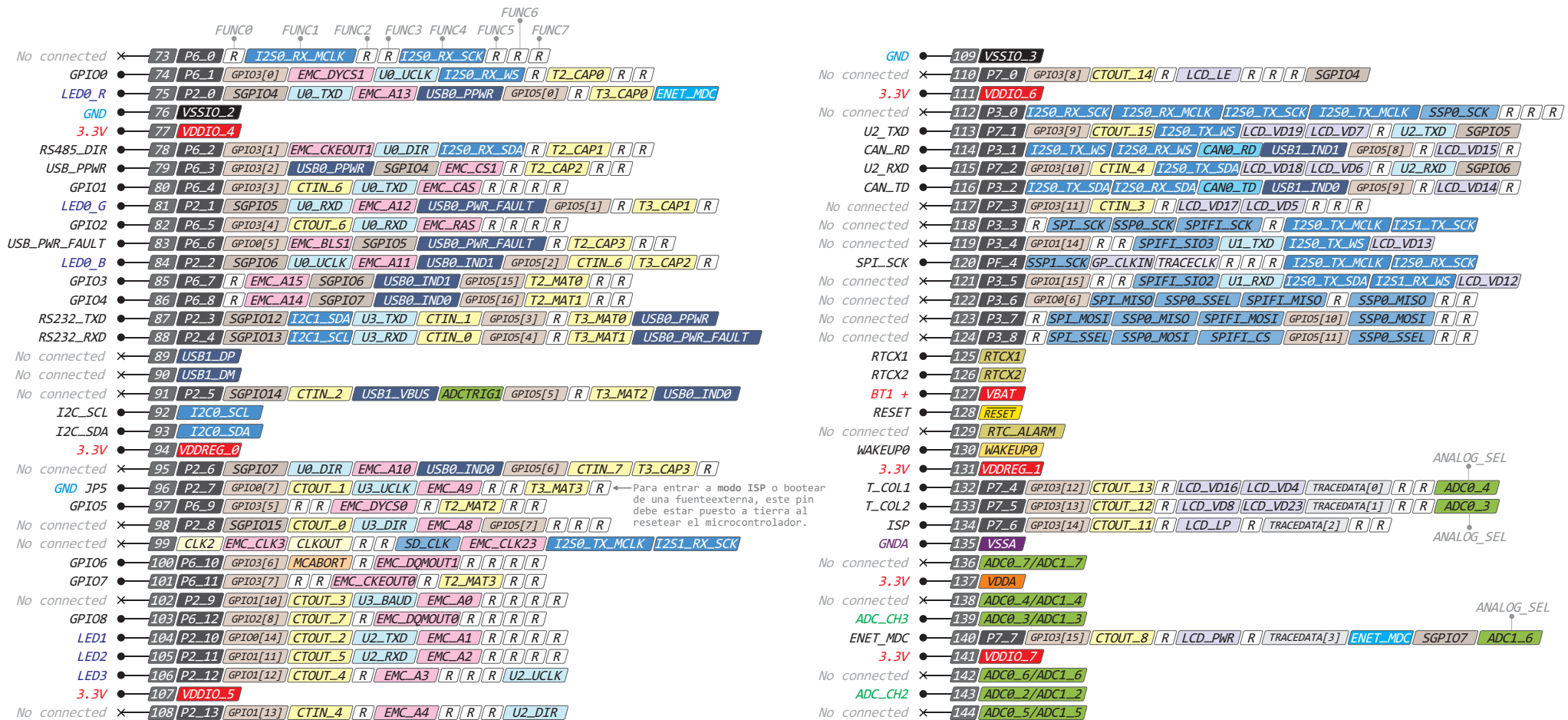
Tira de 40 pines hembra de 0.1" (2,54 mm) de espaciado



























# EDU-CIAA-NXP v1.1 Pines utilizados del NXP LPC4337 JBD144 (1 a 72)



- |   |   |  |
|---|---|--|
|  Numero de Pin del Microcontrolador. |  Entrada/Salida digital (GPIO).  |  LCD.   |
|  Nombre de Pin del Microcontrolador. |  Entrada/Salida digital (SGPIO). |  RTC.   |
|  Alimentación digital.               |  Analógico (ADC/DAC).            |  Temporizador/Contador.                                 |
|  Alimentación analógica.             |  USART.                          |  Clock.   |
|  Tierra digital (GND).               |  SPI, SSP, SPFI, SD.             |  PWM para Control de Motor.                             |
|  Tierra analógica (GNDA).            |  I2C, I2S.                       |  Memoria externa.                                       |
|  Wakeup.                             |  CAN.                            |  Entrada de interrupción externa no enmascarable (NMI). |
|  Reset.                              |  Ethernet.                       |  Función Reservada (no disponible).                     |
|  Debug. Trace Data.                  |  USB.                            |  |

# EDU-CIAA-NXP v1.1 Pines utilizados del NXP LPC4337 JBD144 (73 a 144)



- |   |   |  |
|---|---|--|
|  Numero de Pin del Microcontrolador. |  Entrada/Salida digital (GPIO).  |  LCD.   |
|  Nombre de Pin del Microcontrolador. |  Entrada/Salida digital (SGPIO). |  RTC.   |
|  Alimentación digital.               |  Analógico (ADC/DAC).            |  Temporizador/Contador.                                 |
|  Alimentación analógica.             |  USART.                          |  Clock.   |
|  Tierra digital (GND).               |  SPI, SSP, SPFI, SD.             |  PWM para Control de Motor.                             |
|  Tierra analógica (GNDA).            |  I2C, I2S.                       |  Memoria externa.                                       |
|  Wakeup.                             |  CAN.                            |  Entrada de interrupción externa no enmascarable (NMI). |
|  Reset.                              |  Ethernet.                       |  Función Reservada (no disponible).                     |
|  Debug. Trace Data.                  |  USB.                            |  |