Table 2.2: The NU32 pinout (in gray, with power jack at top) with PIC32MX795F512H pin numbers

Function	PIC32			PIC32	Function
GND		GND	GND		GND
3.3 V		3.3 V	3.3 V		3.3 V
5 V		5 V	5 V		5 V
VIN		VIN	VIN		VIN
C1RX/RF0	√ 58	**F0**	GND		GND
C1TX/RF1	√ 59	**F1**	**G9**	8 √	U6RX/$\overline{\text{U3CTS}}$/PMA2/CN11/RG9
PMD0/RE0	√ 60	E0	**G8**	6 √	SCL4/SDO2/U3TX/PMA3/CN10/RG8
PMD1/RE1	√ 61	E1	**G7**	5 √	SDA4/SDI2/U3RX/PMA4/CN9/RG7
PMD2/RE2	√ 62	E2	**G6**	4 √	SCK2/U6TX/$\overline{\text{U3RTS}}$/PMA5/CN8/RG6
PMD3/RE3	√ 63	E3	**$\overline{\text{MCLR}}$**	7 √	$\overline{\text{MCLR}}$
PMD4/RE4	√ 64	E4	**D7**	55 √	CN16/RD7
PMD5/RE5	√ 1	E5	D6	54 √	CN15/RD6
PMD6/RE6	√ 2	E6	D5	53 √	PMRD/CN14/RD5
PMD7/RE7	√ 3	E7	D4	52 √	OC5/IC5/PMWR/CN13/RD4
AN0/PMA6/CN2/RB0	16	B0	D3	51 √	SCL3/SDO3/U1TX/OC4/RD3
AN1/CN3/RB1	15	B1	D2	50 √	SDA3/SDI3/U1RX/OC3/RD2
AN2/C2IN-/CN4/RB2	14	B2	D1	49 √	SCK3/U4TX/$\overline{\text{U1RTS}}$/OC2/RD1
AN3/C2IN+/CN5/RB3	13	B3	D0	46 √	OC1/INT0/RD0
AN4/C1IN-/CN6/RB4	12	B4	C14	48	T1CK/CN0/RC14
AN5/C1IN+/CN7/RB5	11	B5	C13	47	CN1/RC13
AN6/OCFA/RB6	17	B6	D11	45 √	IC4/PMA14/INT4/RD11
AN7/RB7	18	B7	D10	44 √	SCL1/IC3/PMA15/INT3/RD10
AN8/C2TX/U5RX/$\overline{\text{U2CTS}}$/RB8	21	B8	D9	43 √	U4RX/$\overline{\text{U1CTS}}$/SDA1/IC2/INT2/RD9
AN9/PMA7/RB9	22	B9	D8	42 √	IC1/INT1/RD8
AN10/PMA13/RB10	23	B10	G2	37	D+/RG2
AN11/PMA12/RB11	24	B11	G3	36	D−/RG3
AN12/PMA11/RB12	27	B12	VBUS	34 √	VBUS
AN13/PMA10/RB13	28	B13	F3	33 √	USBID/RF3
AN14/C2RX/SCK4/U5TX/$\overline{\text{U2RTS}}$/PMA1/RB14	29	B14	F4	31 √	SDA5/SDI4/U2RX/PMA9/CN17/RF4
AN15/OCFB/PMA0/CN12/RB15	30	B15	F5	32 √	SCL5/SDO4/U2TX/PMA8/CN18/RF5

Pins marked with a √ are 5.5 V tolerant. Not all pin functions are listed; see Figure 2.1 or the PIC32 Data Sheet. Board pins in **bold** should only be used with care, as they are shared with other functions on the NU32. In particular, the NU32 pins G6, G7, G8, G9, F0, F1, D7, and MCLR should be considered outputs during normal usage. The value of $\overline{\text{MCLR}}$ is determined by the $\overline{\text{MCLR}}$ button on the NU32; the value of D7 is determined by the USER button; F0 and F1 are used by the PIC32 as digital outputs to control LED1 and LED2 on the NU32, respectively; and G6 through G9 are used by the PIC32's UART3 for communication with the host computer through the mini-B USB jack.