

Signal Name	From	To	Signal Description
EARN	U1	Voice Receiver	Negative Audio Voice to Receiver
EARP	U1	Voice Receiver	Positive Audio Voice to Receiver
DAC	U1	R3	Used to allow a path to earth for VBAT through the Vibrator motor
MICBIAS	R28	R5	Microphone bias supply(2V)
MICIN	MIC1	U1	Negative analogue uplink audio from on board Microphone
MICIP	MIC1	U1	Positive analogue uplink audio from on board Microphone
BATTEMP	U1	R11	NTR connect of the Battery
VCCS	R238	U1	Charging current sense
VBATS	R237	U1	Charging current sense
VCHG	J13	U5	Adaptor DC input
VCGH1	U4	U4/R27/R65	Power Supply of Charge system
VCHG2	R27	U1	Power Supply of U1
PCHG	R235	U1	Battery Pre-charge Path
LEDC	D10	U1	Charge indicator LED control signal
ICTL	U1	U4	Charge current control signal
VRSIM	U1	CONN1	SIM card power supply
VRIO_2.8V	U1	R316/LCM/U7/U11/U12/U15	Power supply of U10, LCM, U7, U11, U12, U15
VRDBB_1.5V	U1	U7	Power supply of U7
UPR	U1	U1	Power Supply of U1
VADCID	U1	TP29	Cable detection
TEMP_SEN	U15	U1	Reserve
BS_TPO	U1	TP4	Reserve
MODE_DETECT	U1	R313/R314	EarJack function detection
TDO	U7	U1/TP16	Data output of JTAG
TMS	TP16	U1/U7	JTAG mode selection
TCK	TP17	U1/U7	CLK of JTAG
SWITCHONOFF	U1	U7/U105	ABB Regulators ready
RESPWRONZ	U1	U7	G2 power on reset
DLPWR	TP27/TP3	R14	Remote Power ON
CLK32K_OUT	U7	U1	32Khz clock
CLK13M_OUT	U7	U1/U10	13Mhz clock
VBACKUP	C38	U1	RTC battery Voltage Back up
VRRTC_1.5V	U1	U7	Regulator RTC output
VRSIM	U1	CONN1	For SIM card power supply
VRRAM_2.8V	U1	U108	For SRAM power supply
VRMEM_2.8V	U1	U108	For Flash power supply
VRABB_2.8V	U1	U1	For U1 power supply
VRMEM_2.8V	U1	U108	For Flash power supply
PWON	S1	R15	ON button

TXIP/TXIN	U1	R73	In-phase baseband codec uplink signals
TXQP/TXQN	U1	R76	Quadrature baseband codec uplink signals
RXIP/RXIN	U15	U1	In-phase baseband codec downlink signals
RXQP/RXQN	U15	U1	Quadrature baseband codec downlink signals
AUXOP	U1	C305	Reserve
AUXI	R307	U1	Headset Microphone
HSO	U1	C94	Headset 32 ohm driver (single ended)
HSMICIP	C98	U1	Headset Microphone amplifier input (single ended)
HSMICBIAS	U1		Reserve
SCLK3	U7	U1	Sim Clock output from Processor
SIO3	U1/U7	U7/U1	SIM Data Communication between Processor and Power Control IC
SRST3	U7	U1	SIM Reset from Processor
SCLK5	U1	CONN1	SIM data Clock
SIO5	U1/CONN1	CONN1/U1	Data Communications path between SIM card and Power Control IC
SRST5	U1	CONN1	SIM Reset from power Control IC
APC	U1	R66	Automatic Power Control - Sets the PA output level
AFC	U1	R71	Automatic Frequency Control - Is used to ensure accurate frequency Information
EXT_FIQ	U1	U7	Fast external interrupt for ARM
EXT_IRQ	U1	U7	External interrupt for ARM
TDR	U7	U1	Time serial port input data
TEN	U7	U1	Time serial port enable
VCLKRX	U1	U7	Voiceband Data transfer Clock
VDR	U1	U7	Voiceband serial port receive data
VDX	U7	U1	Voiceband serial port transmit data
VFSRX	U1	U7	Voiceband Data Frame Synchronisation Signal
MCUDI	U1	U7	ARM Input serial data.
MCUDO	U7	U1	ARM Output serial data.
MCUEN0	U7	U1	ARM Configurable enable triggers (edge/level)
BDR	U1	U7	Downlink Processed Digital Baseband Audio Information
BDX	U7	U1	Uplink Processed Digital Baseband Audio Information
BFSR	U1	U7	Baseband Data Framesynch Receive
BFSX	U7	U1	Baseband Data Framesynch Transmit
D[0..15]	U7/U10/U108	U10/U108/U7	Data Bus for U10, U108 and U7
SPKN/SPKP	U10	BL2	Speaker Audio Amp output
SPVDD	U109	U10	Power supply of Speaker Audio Amp
VRIO_2.8V_M	R316	U10	Power supply of U10
MUSIC_ON	U7	U110	Reserve
RNW	U7	U10/U108	Read and Write - allows information to be written or read from the memory devices
nSC2	U7	U10	Used as Chip Enable for U10
MUSIC_A0	U7	U110	U10 address signal

nFOE	U7	U10/U108	Flash and SRAM output Enable - Active Low
nIRQ_Melody	U10	U7	Melody IRQ request
nRESET	U7	U10/LCM	Reset of external peripheral
LED+	U103	LCM	LCM BackLight LED driver
LEDLCM_EN	U7	R230	LCM BackLight LED Enable
LCDAO	U7	LCM	LCM mode selection
SCLK	U7	R240	I2C INTERFACE Master serial clock for LCM
SDO	U7	R242	I2C INTERFACE Serial bidirectional data for LCM
nSCS0	U7	R244	LCM chip select
DSR_MODEM	U7	TP11	Data Set Ready
DTR_MODEM	U7	TP10	Data Terminal Ready
RTS_MODEM	U7	TP12	Request To Send.
CTS_MODEM	U7	TP9	Clear To Send
RX_MODEM	U7	TP14/U11	Receive Data
TX_MODEM	U7	TP13/U12	Transmit Data
TX_IrDA	U7	TP36	Transmitted Infra-red information to an Infrared accessory
RX_IrDA	TP37	U7	Transmitted Infra-red information from an Infrared accessory
TDI	U1	TP8/U7	Data input of JTAG
TCXOEN	U7	U15	Xtal select(pull high for Crystal) and Xtal enable (VCXO and buffer supply)
S_PWCT	U7	R39	SIM power control
RTC_ALARM	U7	U1	Wakeup interrupt of real time clock
RF_LE	U7	U15	Transceiver / Processor Serial Communication Data Latch
RF_DAT	U7/U15	U15/U7	Transceiver / Processor Serial Communication Data
RF_CLK	U7	U15	Transceiver / Processor Serial Communication Data Clock
GSM_TXEN	U7	U17/U13	Used both within the RF switch and the TX VCO to select the GSM Frequency Band
TRENA	U7	U16	T/R switch enable
PAENA	U7	U13	Chip enable for PowerAmp IC
TSPACT0	U7	U15	RITA Serial interface reset
EAR_DETECT	R63	J5	Headset Detection
LEDKEY_EN	U7	R52	When this signal goes high, the Keypad backlights are illuminated
nSC0	U7	U108	Used as Chip Enable for the Flash Memory
nSC1	U7	U108	Used as Chip Enable for the SRAM
nBHE	U7	U108	Enable to address High Byte Information
nBLE	U7	U108	Enable to address Low Byte Information
A[1..22]	U7	U108	Address Bus of ARM memory Interface
COL[0..3]/ROW[0..4]	U7	Keypad Matrix	Forms part of Keypad Matrix
HS_EN	U7	U11/U12	Analog switch control(MODEM or Headset)
HS_MIC	U7	R64	Headset microphone bias
P_mode	U7	R233	Reserve
F_1.8V	U105	U108	Power supply of U108

DCS_PA	U13	U17	Amplified DCS PA output Transmit Frequency
GSM_PA	U13	U17	Amplified GSM PA output Transmit Frequency
DCS_TX	U15	U13	TX VCO generated transmit DCS Frequency
GSM_TX	U15	U13	TX VCO generated transmit GSM Frequency
REF_CLK	U14	U15	26MHz System Clock
DCS_RXN/DCS_RXP	U17	U15	Received DCS Antenna Frequency Signal
GSM_RXN/GSM_RXP	U17	U15	Received GSM Antenna Frequency Signal
VRF	U15	U15/U16	Power supply of RF module
FDP	U7	U108	The Flashreset/deeppower-downmode control
VBAT	J1	U1/U13/U15/U105/U109/U110	Battery Voltage for supply purposes