Service Schematics

NOKIA
N900
RX-51

Measurements

All measurements were made using the following equipment:

- Nokia repair SW: Phoenix 2009.20.011.39237
- Oscilloscope: PicoScope 3206
- Spectrum Analyzer: Advantest R3162
- Multimeter: Fluke 175

The measurement points in the schematics are linked to the oscillograms on the signal overview page. The links cycle between the measurement point in the schematics, the oscillogram and the measurement point in the component finder.

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Version information

While every effort has been made to ensure that the document is accurate, some errors may exist. Please always check for the latest published version for this document.

If you find any errors in the document please send email to: TrainingAndVendorDevelopment@nokia.com

Version history

1.0 First Approved version
2.0 Added display Flex connector

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Version: 2.0 | 07.10.2009 | N900/RX-51 | Board version: 2JH_21a | Front page | Page 1 (18)
1) BTSYSCLK at C6008

Average 19.2 MHz
50ns/div 200mV/div probe:10x

2) GPS_RFCLK at C6200

Average 38.4 MHz
50ns/div 200mV/div probe:10x

3) SleepClk at B4240

Average 32.768 kHz
20ns/div 200mV/div probe:10x

4) WLAN at X6301

RBW:100 kHz VBW:300 Hz SWP: 500 ms
ATT:45 dB SPAN:50 MHz CENTER:2.412 GHz

VBAT 3.7V
V28 2.8V
VDAC 1.8V
VCORE1 1.2V
VCC_TCXO 2.4V
VIO_18 1.8V
V25 2.5V
VSDI_CSI 1.8V
5) HFCLK at C4247
Average 19.2 MHz
50ns/div 400mV/div probe:10x

6) SleepClk at J2207
Average 32.768 kHz
20ns/div 400mV/div probe:10x

7) GSM at X7500
RBW:10 kHz VBW:3 kHz SWP: 500 ms
ATT:35 dB SPAN:250 kHz CENTER:836.6 MHz

8) WCDMA at X7500
RBW:10 kHz VBW:1 kHz SWP: 500 ms
ATT:5 dB SPAN:8 MHz CENTER:1.95 GHz

VPLL 1.8V/V28_C 2.8V
V28_A 2.8V
VRCP1 4.75V
VRFC 1.8V
VCORE 1.2V
RSTX 3.7V
SLEEPX 1.8V
VIO 1.8V