

Barry Quinlan

From: "Ruby Dulmage" <ruby.dulmage@nemkona.com>
To: "Barry Quinlan - Curtis-Straus" <certification@curtis-straus.com>
Sent: Tuesday, October 01, 2002 2:44 PM
Attach: sga6289.pdf; spa-2318 (RevE).pdf; AM50-0004.pdf; ah1.pdf; sxa-389.pdf
Subject: Reply Re - Spotwave FCC ID: P3YSPOTCELL0005

Hi Barry:

Please see answers below and also attachments.

Thanks,
 Ruby

From: [Curtis-Straus TCB](#)
To: [Ruby Dulmage](#)
Sent: Friday, September 27, 2002 5:50 PM
Subject: Spotwave FCC ID: P3YSPOTCELL0005

Hi Ruby,

We have identified these issues following our review of the application:

1. Please supply the DC voltage and current supplied to the final RF stage.
 [Bisrat, Yohannes] The Uplink final RF stage of the DU is supplied by [5v@400mA](#) and the Downlink final RF stage is supplied by [5v@120mA](#).
2. Please supply a technical description of the circuitry.
 [Bisrat, Yohannes] The Uplink RF stage consists of a duplexor, a linear MMIC amplifier, part N° SGA - 6289 (data sheet attached), a thermal pad, a 40MHz wide filter, whose center frequency varies on whether it is an EFC or ADBE variant DU and a final stage RF amplifier, part N° SPA-2318 (data sheet attached). The final RF amplifier is followed by a duplexor with a transmit center frequency of 1880MHz. The function of the Uplink RF stage is to provide a total gain of 20dB. The final RF stage is also provided with under-voltage detection circuitry which allows the system to shut the PA down when the voltage is below a defined voltage level.

The Downlink stage consists of a three stage amplification with the first being a LNA , part N° AM50-0004 (data sheet attached), an AH1 amplifier (data attached), a filter and finally a MMIC amplifier, part N° SXA-389 (data sheet attached). The Downlink RF stage provides a total gain of 23dB.

Best regards

Barry C. Quinlan
 Certification Manager
 Curtis-Straus TCB