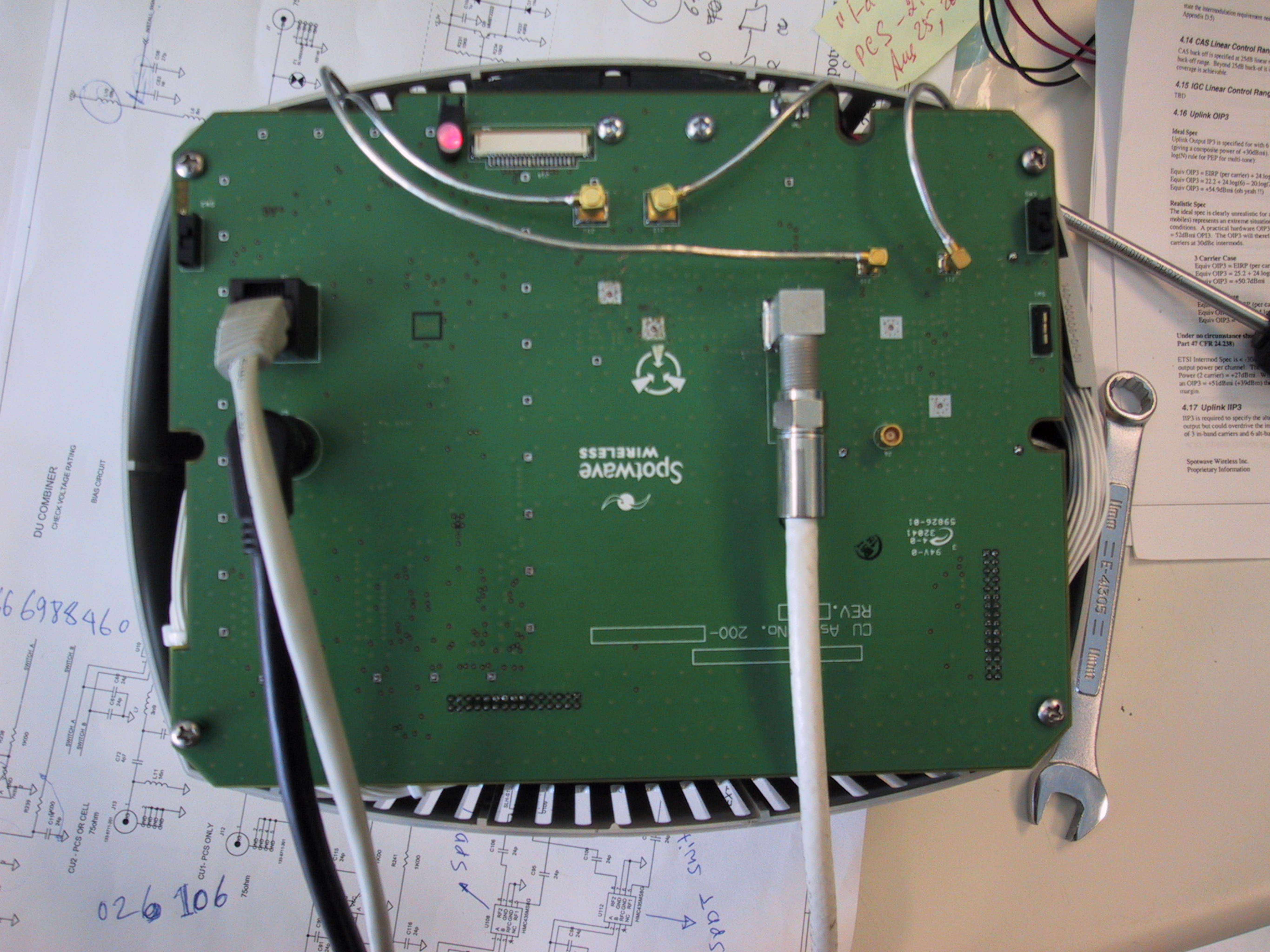




w/la
PCS-2.1
Aug 25, 2001

DU COMBINER
CHECK VOLTAGE RATING
BIAS CIRCUIT

66988460

026 106

SPD

Switch 20dB

Spotwave
WIRELESS

REV. 200-01
CU AS

94V-0
32041
59826-01

state the intermodulation requirement per Appendix D.5)

4.14 CAS Linear Control Range
CAS back off is specified at 25dB linear back-off range. Beyond 25dB back-off, coverage is achievable.

4.15 IGC Linear Control Range
TBD

4.16 Uplink OIP3
Ideal Spec
Uplink Output IP3 is specified for with 6 (giving a composite power of +30dBm) log(N) rule for PEP for multi-tone)
Equiv OIP3 = EIRP (per carrier) + 24
Equiv OIP3 = 22.2 + 24.log(6) = 20.log(6)
Equiv OIP3 = +54.9dBm (oh yeah !!)

Realistic Spec
The ideal spec is clearly unrealistic for mobiles) represents an extreme situation conditions. A practical hardware OIP3 = 52dBm OIP3. The OIP3 will therefore carriers at 30dBc intermod.

3 Carrier Case
Equiv OIP3 = EIRP (per carrier)
Equiv OIP3 = 25.2 + 24.log(3)
Equiv OIP3 = +50.7dBm

Under no circumstance should Part 47 CFR 24.238)

ETSI Intermod Spec is +30dB output power per channel. The Power (2 carrier) = +27dBm. With an OIP3 = +51dBm (+39dBm) the margin.

4.17 Uplink IIP3
IIP3 is required to specify the alternate output but could override the margin of 3 in-band carriers and 6 out-band carriers.

Spotwave Wireless Inc.
Proprietary Information

1mm = E-4305 = 1mm