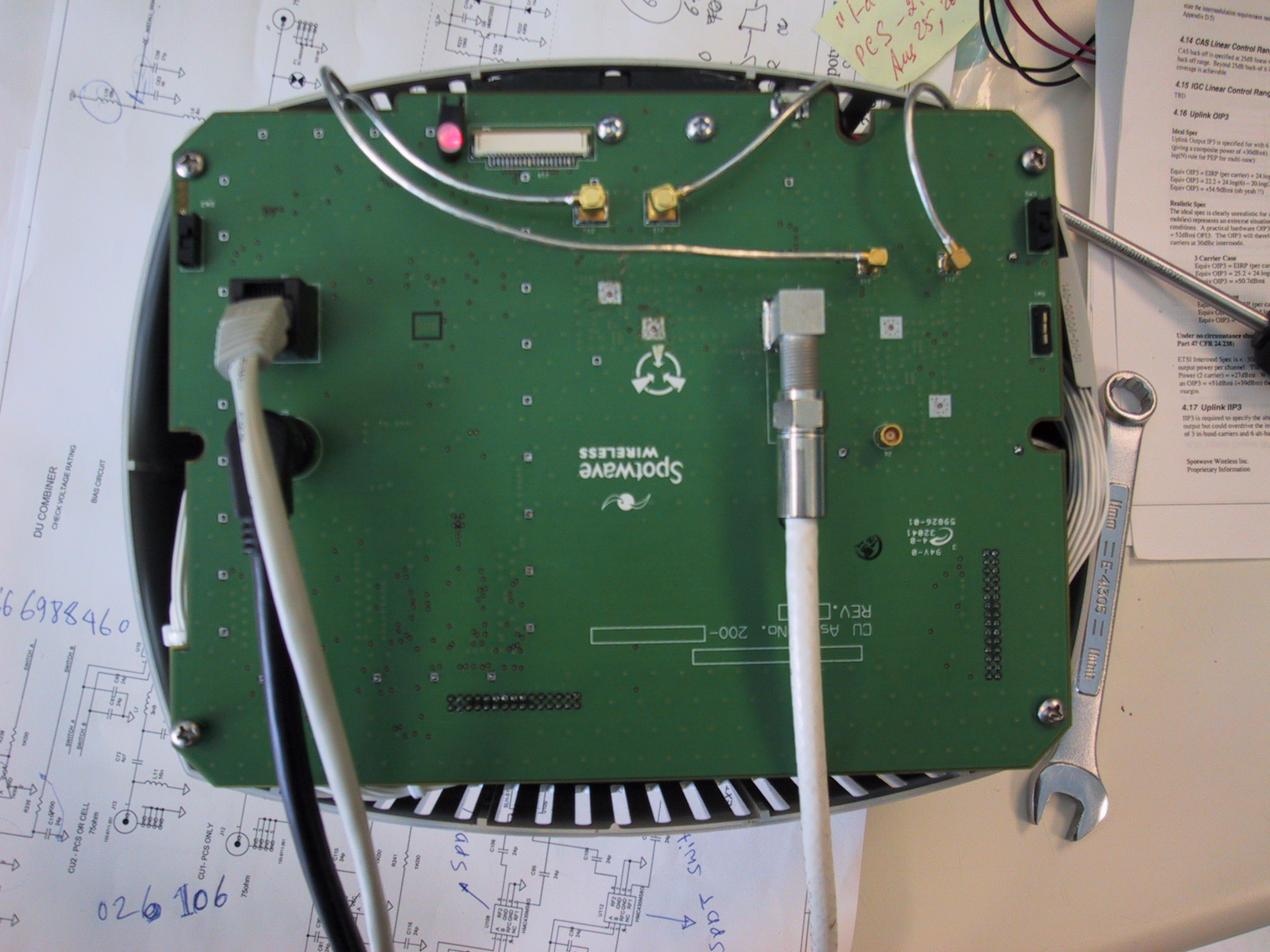




W-1a
PCS-2
Aug 25, 2001

DU COMBINER
CHECK VOLTAGE RATING
BIAS CIRCUIT

66988460

026106

Spotwave
WIRELESS

CU ASSEMBLY NO. 200-
REV. 1

59826-01
32041
94V-0

1mm = E-4305 = 1mm

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 it
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

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 alt
output but could override the in
of 3 in-band carriers and 6 alt-ba

Spotwave Wireless Inc.
Proprietary Information