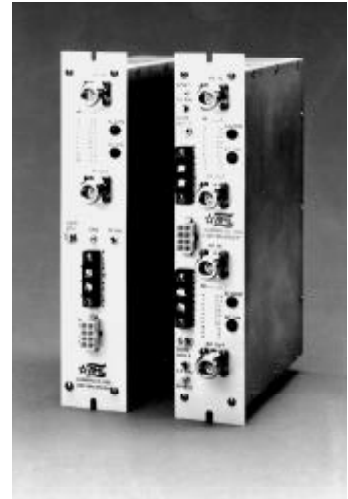


Link Balancer™ Ericsson 882 Compatible Receive Amplifiers



Models R101-S and R101-D Shown

- Increase Calls Initiated and Decrease Dropped Calls
- Ericsson 882 DM Compatible
- Single or Diversity Low Noise Amplifier (LNA)
- Adjustable Gain
- Unsurpassed AML Technical Support

Link Balancer[®] Receive Amplifiers R - Series

Functional Description

The R Series Link Balancer[®] diversity and non-diversity Low Noise receive Amplifiers (LNA's) are designed for use with Ericsson 882 Microcell and Macrocell base station equipment. The R101 and R103 install into the 882 Microcell radio or the 882 Macrocell multicoupler slot, respectively. DC power is taken from the host equipment power buss via an AML supplied cable.

This product series increases the revenue generation capability of a base station by increasing the number of calls initiated and decreasing the dropped call rate. These advantages are a function of improved base station receive sensitivity. Installation can be completed in minutes by following the supplied instructions.

Gain is conveniently adjustable over a 20 dB range by a calibrated front panel control. The amplifier performance is continuously monitored. A visual indicator and a dry contact pair signals an alarm condition.

These products incorporate GaAs FET technology with high Q ceramic preselector filtering. This provides low noise amplification with substantial rejection of interfering signals.

Associated products in the Link Balancer[®] series include units for mast head installation, 19 inch rack mount and cavity filter versions for cellular and PCS application.

General Specifications

Frequency

824-849 MHz
USA Cellular A and B band

Gain

-6 to +14 dB

Gain Flatness

+/-1 dB

Gain Adjust

Calibrated Potentiometer

Noise Figure

See Table

VSWR

2:1

Impedance

50 ohms

Electrical Delay

50 nsec

Third Order Intercept

+25 dBm

Rejection (869-894 MHz)

37 dB minimum, 44 dB typical

Dimensions

Ericsson 882 Micro and Macro slot compatible (See Table)

Operating Temperature

-20° to 60°C sheltered

Connectors

"N" type (f)

DC Power

Operates from 882 DC Power buss

Note: 882 Macro is +24 VDC

882 Micro is +12 VDC

Alarms

Open relay contact on "amplifier current out of range".
Red LED illuminates for visual alarm indication.

Options

- **Gain**
23 dB
- **Extended Frequency Operation**
- **Mechanical**
Mast Head, 19" Rackmount and
Weatherized Configurations

All of the above specifications are subject to change without notice.

Model	Description	Noise Figure	Panel Height/Width	Application
R101-S	Non-diversity receive unit	3 dB max	9.5/1.8 inches	Ericsson 882 Micro
R101-D	Diversity receive unit	3 dB max	9.5/1.8 inches	Ericsson 882 Micro
R103-S	Non-Diversity receive unit	3 dB max	8.7/1.8 inches	Ericsson 882 Macro
R103-D	Diversity receive unit	3 dB max	8.7/1.8 inches	Ericsson 882 Macro
R103-DE	Diversity receive unit with dual external cavity filters	1.5 dB max	8.7/1.8 inches	Ericsson 882 Macro

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