



862 MHz, 34 dB Gain Line Extender Amplifier



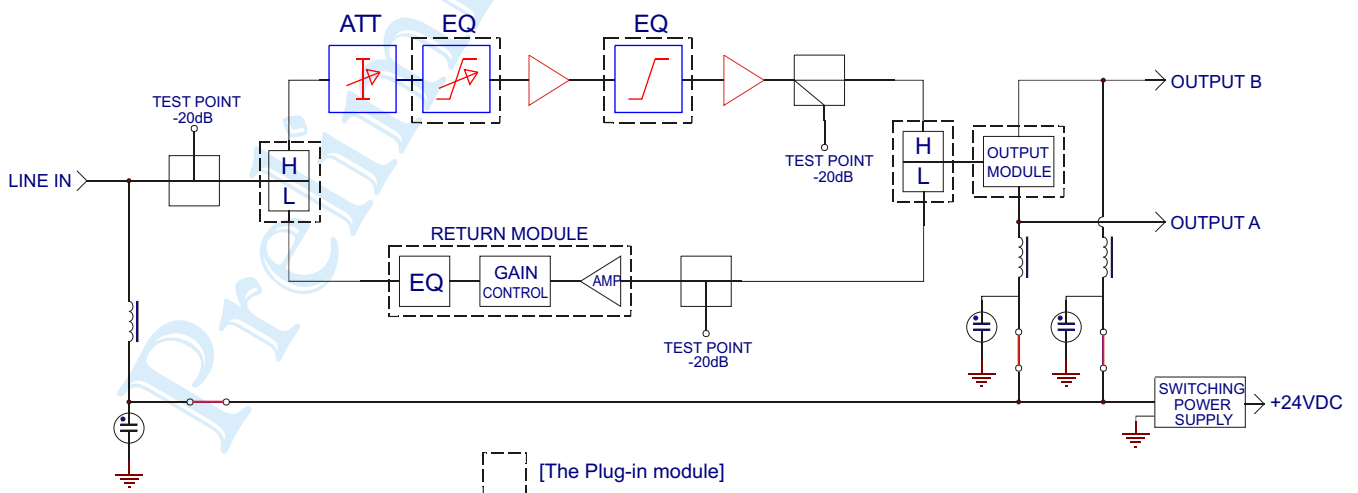
LE-2010/34/86

**Features :**

- 862 MHz wideband amplifier
- Mounting scheme: strand or pedestal installation
- Uses hybrid module for push-pull amplification
- Uses high efficiency, wide operating range (30 ~ 90 V AC) switching power supply
- Equipped with arresters for protection
- Plug-in designed modules, ease of installation and maintenance
- Aluminum alloy die-casting housing with RF gasket for screening, rubber gasket for waterproof, and powdered coating for environmental protection

**Descriptions :**

- The LE-2010 is a bidirectional outdoor amplifier designed with compact and efficiency switching power supply.
- Plug-in modules at output side for extra bridge output makes the installation flexible.





## 862 MHz, 34 dB Gain Line Extender Amplifier

### Specifications :

Forward Path	
FREQ. Range	870 MHz
Mini Full Gain	34 dB
Operating Gain	32 dB
Gain Control	Variable 0 ~ 15 dB typ.
Slope Control	Variable 0 ~ 18 dB typ.
	Fixed (750 MHz) 0, . . . ,20dB (in 1 dB step)
	Fixed (862 MHz) 3, 6, 8, 9, 11, 12, 14, 16, 17, 19 dB
Output Level (Reference) (54/550/870 MHz)*	77 analog chs+312 MHz digital 95/102/104 dBuV
Composite Second Order (CSO)	-62 dBc
Composite Triple Beat (CTB)	-66 dBc
Cross Modulation (XMOD)	-66 dBc
Noise Figure	9 dB
Return loss	16 dB typ. 12 dB min.
HUM Modulation	-70 dB
Current Consumption (DC)	400 mA (w/ RA: 80)

\* for digital channels at 550 ~ 862 MHz , carriers are -10 dB lower relative to analog channels.

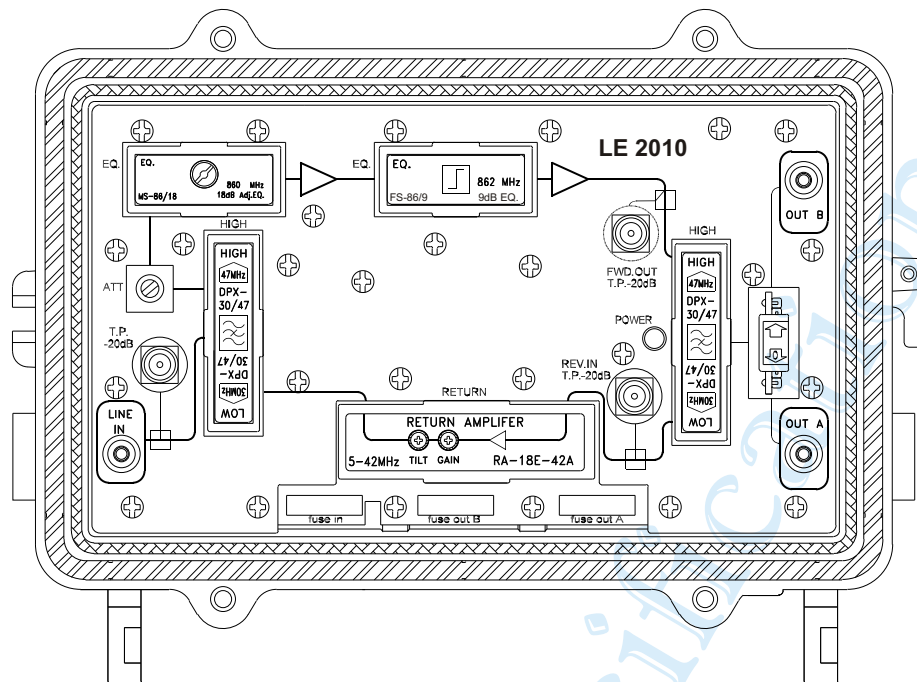
Return Path				
Module	with Passive Return Module RB-J0	with RA-18E-x series		
Fixed Slope	0 dB	2 1 dB		
Full Gain (Loss)	(4 dB max.)	17 2 dB		
Gain Control	-	Att. 0 ~ -10 dB (adj)		
Slope Control	-	1 ~ 8 dB (adj)		
Noise Figure	-	7 dB		
Return Loss (max. Tilt)	12 dB min.	14 typ. 8 dB min.		
Output Level (Reference)	-	100 / 4	100dBuV / 5 channels	
Composite Second Order (dB)	-	-68	-64	-64
Composite Triple Beat (dB)	-	-59	-59	-59
Cross Modulation (dB)	-	-61	-61	-61

General Specifications	
I/O Test Ports	-20 2 dB, to input & output level
Power Consumption & Requirement	12 W @ 35 ~ 90 V DC; 30 ~ 90 V AC, 47 ~ 63 Hz square or sinusoidal wave
Switch power supply output rating	500 mA @ 24 VDC
Impedance	75
Surge Protection	7,000, 1.2 x 50 us
Power Passing	10 A
Over Voltage Protection	120 V AC
Operating Temperature	-40 ~ +60
Connector	5/8"-24NEF Female
Dimensions	230(L) x 165(W) x 82(H) mm
Net Weight	2.0 Kg

Specifications are subject to change without notice.



Optional Plug-in Module Selection for LE-2010/34/86 series



Module	Module Code	Module Description
Diplexer	DPX-30/47	5 ~ 30 MHz & 47 ~ 862 MHz Split
	DPX-42/54	5 ~ 42 MHz & 54 ~ 862 MHz Split
	DPX-55/70	5 ~ 55 MHz & 70 ~ 862 MHz Split
	DPX-65/84	5 ~ 65 MHz & 84 ~ 862 MHz Split
EQ.	FS-86/ 3, 6, 8, 9, 11, 12, 14, 16, 17, 19	862 MHz fixed value EQ.
	FS-75/ 0, 1, 2 ~ 18, 19, 20 (in 1 dB step)	750 MHz fixed value EQ.
	MS-86/18	862 MHz adj. input EQ. (0 ~ 18 dB)
	MS-75/18	750 MHz adj. input EQ. (0 ~ 18 dB)
Reverse	RB-J0	0 ~ 1000 MHz, 0dB Jumper
	RA-18E-30A	5 ~ 30 MHz 18 dB Gain
	RA-18E-40A	5 ~ 40 MHz 18 dB Gain
	RA-18E-42A	5 ~ 42 MHz 18 dB Gain
	RA-18E-55A	5 ~ 55 MHz 18 dB Gain
	RA-18E-65A	5 ~ 65 MHz 18 dB Gain
Output	OTM-0	0 dB Jumper
	OTM-4/4	862 MHz Splitter
	OTM-10/1	862 MHz 10 dB Tap off

\* Standard: module will be included with shipment

Please see the detailed specifications of plug-in modules from Zinwell's catalog.

Model Number System :

