

Datasheet

V5-EVO Launch & Line Amplifiers

EV5-100T Mains Powered Launch Amplifier

EV5-101T Line / Remote Powered Launch / Repeater Amplifier

EV5 Launch and Line amplifiers are designed for EV5 cascaded and radial multiswitch systems for amplifying satellite and terrestrial trunk cable signals. Each amplifier has four separate SAT IF amplifiers and one broadband terrestrial amplifier in a fully-screened diecast housing for added interference immunity. V5-100T and 101T are designed to reject 4G-800 LTE interference. Each model incorporates reliable gold contact switched attenuation and slope control on all five inputs. The terrestrial amplifiers use high quality push-pull technology for low distortion and high output capability.



EV5-100T with built-in power supply can be used to power line powered systems including the LNB at up to 2A. EV5-101T can be line powered via its input or output connectors or with a remote power supply (V5-034 recommended). Both models have LED indicators for power on both 14V (V) and 18V (H) line. EV5-100T has additional red/green LEDs for overload or short-circuit identification.

Model		EV5-100T	EV5-101T
Frequency Range	SAT IF	950-2400MHz	
	Terrestrial	47 -790MHz	
Gain	SAT IF	22dB	
	Terrestrial	22dB	
Gain Control/ Attenuation	SAT & Terr Inputs	0 – 15dB 1dB steps	
Slope Control	SAT IF	0 / 3 / 5/ 7dB	
	Terrestrial	0 / 6 / 12 / 18dB	
Isolation	SAT / SAT	30dB	
	SAT / Terr	30dB	
Noise Figure (typical)		≤9dB	
Terr Output IMD ³ -35dB (EN50083-3)		115dB _μ V	
SAT IF Output IMD ³ -35dB (EN50083-3)		114dB _μ V	
External powering	V Lines	14V 0.5A switchable with LED indicator	
	H Lines	18V 2.0A switchable with LED indicator	
	Terr Lines	12V 0.1A switchable with LED indicator	
DC Pass switchable via H Lines		2A max when load is shared on H:Lo & H:Hi	
Power consumption		230V AC 50Hz 7w without external load	DC 9-18V 4W line powered or external PSU**
Operating temperature range		-20 ⁰ to +50 ⁰ C	
LED indicators x 3		Green: 12V on 18V on 14V on / Red: overload/SC	Green 12V on 18V on 14V on
Connectors / Earth Connection		RF F female 4mm2 Earth Post UK mains plug 3A	RF F female 4mm2 Earth Post DC 18V F female
Dimension & Weight		284x 135x52mm 1.0kg	178x135x30mm 0.6kg

** recommended PSU for external remote power is EV5-034 18V 2.5A. Use direct connection to EV5-101T or V5-033 DC injector/ line power tap.