



*Hot Swappable Dual High Performance
ATLT-500 model*



Features

- Two hot swappable units in 1U shelf
- Cost effective solution
- Wide range of Transmit Frequencies
- Meets or exceeds IESS 308/309 requirements
- High linearity
- Front panel control (local)
- Full remote control (remote)

Overview

The Advantech Dual - HP range of converters uses the latest technology in conversion, giving two independent conversion chains in 1 RU package, local and remote control thus providing the ultimate in performance and user friendly operation at a very competitive price.

The spectral purity, low phase noise and stability exceed the requirements of all major international satellite network operators.

The flexible and comprehensive monitor and control features on the HP converter ensure that it will fit into any network management system architecture. The user-friendly front panel or the RS485 remote interface will provide full set-up and fault monitoring facilities. The RS232 will provide the Monitor and Control functions via a PC and will also allow for software downloading.

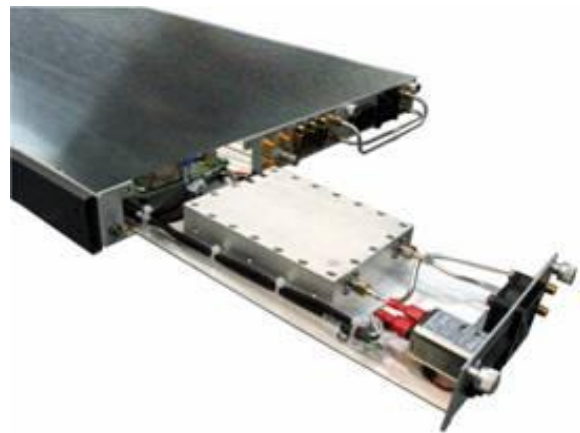
The converter uses a PLL oscillator either locked to a highly stable internal 10 MHz reference or if the external reference option is fitted and the proper level of signal is present, the PLL oscillator will automatically lock to the external reference.

Options

- Ethernet interface
- Redundant 1:1 application in 1U package
- Quad units in 1U (not swappable)
- Other operating bands

Operating Bands

| Model | RF Transmit Band | L-Band Band |
|-------------|-------------------|----------------|
| ATLT-500CS | 5.85 – 6.42.5 GHz | 950 – 1525 MHz |
| ATLT-500K1 | 14.0 - 14.5 GHz | 950 – 1450 MHz |
| ATLT-500K2 | 13.75 - 14.5 GHz | 950 – 1700 MHz |
| ATLT-500K3 | 12.75 – 13.25 GHz | 950 – 1450 MHz |
| ATLT-500X | 7.9 – 8.4 GHz | 950 – 1450 MHz |
| ATLT-500DBS | 17.3 – 17..8 GHz | 950 – 1450 MHz |



Satellite Transmit/L-Band Translator

| Technical Specifications | |
|--|---|
| Frequency range | (See table on front page) |
| Max input level | +10 dBm no damage |
| RF/ IF Interfaces | |
| Input/Output Connector | SMA (female) |
| Input impedance | 50 Ω |
| Input Return loss | 18dB |
| Output impedance | 50 Ω |
| Output Return Loss | 16dB |
| Input/Output Connector | SMA (female) |
| Return loss | 16 dB |
| Conversion Parameters | |
| Conversion Gain | 20 dB nominal |
| Gain adjustment | 20 dB |
| Attenuator step size | 0.1 dB |
| Gain flatness | ±1.5.dB p-p over full band ±0.5 dB p-p over 36 MHz |
| Gain stability | ±0.75 dB over 0° to +55°C ±0.25 dB max. / 24 hours |
| Spurious | -55 dBc In-band at Pin = -25dBm |
| Phase noise | 10 Hz -30 - X dBc |
| | 100 Hz -60 - X dBc |
| | 1000Hz -70 - X dBc |
| | 10 kHz -80 - X dBc |
| | 100 kHz -90 - X dBc |
| 1 MHz to 5 MHz -90 - X dBc | |
| For X, K1, K2 and K3 , X equals 5 -> -85dBc at 10KHz | |
| For DBS. X equals 3 -> -83dBc at 10KHz | |
| Controls & Indicators | |
| Attenuator select | |
| Local/Remote | |
| Mute/Unmute | |
| Reference | |
| External Reference | 10 MHz |
| External ref. input level | 0 dBm ± 5 dB |
| Internal reference stability | +/-2 x 10 ⁻¹⁰ / day |
| | +/-2 x 10 ⁻⁸ over T ^o |
| Aging | +/-5 x 10 ⁻⁸ / year |
| Mechanical | |
| Dimensions | Width 19" (482.6 mm) |
| | Height 1U 1.75" (44.5 mm) |
| | Depth 24" (609.6 mm) |
| Power Supply | |
| Voltage | 90 – 265 VAC (47 – 63 Hz) |
| Power | 50W |
| Connector | IEC 603320 10A |
| Monitor and Control | |
| RS 485 | DB9 |
| RS232 | DB9 |
| Discrete | DB9 |
| Environmental | |
| Operational | 0°C to +50°C standard |
| Storage | -55°C to +85°C |
| Humidity | Non-condensing |
| Altitude | 3,000m AMSL |

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