



# PDT-300 X-Band Transmitter

The PDT-300 series X-Band Transmitter is a high performance payload data transmitter, designed to provide high bandwidth and high speed data downlink of up to 300Mbps.

The PDT-300 is highly flexible for various data rate configurations to suit various mission types. The PDT-300 Transmitter consists of Solid-State Power Amplifier (SSPA) modules, as well as two RF transmission chains offering increased redundancy and communication coverage.

## Key Features

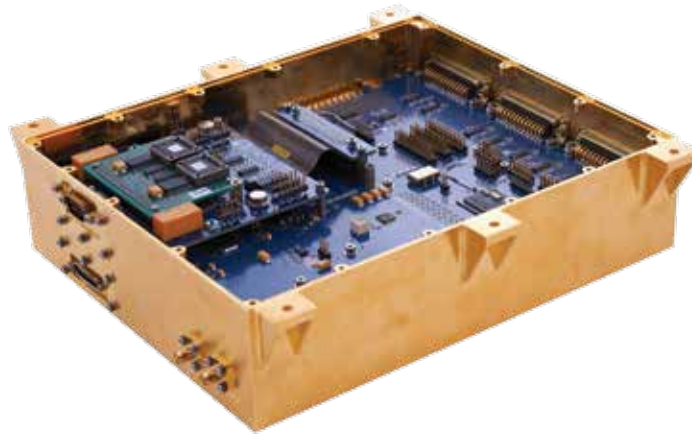
- Light weight, low cost and high performance payload data transmission
- Increased flexibility and reliability
- Near realtime communications with high speed data downlink of up to 300Mbps
- Increased reliability
- Proven design with heritage from X-SAT



PDT-300 X-Band Transmitter

## Technical Specifications

|                               |  |
|-------------------------------|--|
| <b>Transmit Frequency</b>     | 8025MHz – 8400MHz  |
| <b>Transmit Modulation</b>    | OQPSK  |
| <b>Transmit Bandwidth</b>     | 300 MHz  |
| <b>Data Rate</b>              | 300Mbps<br>Up to 3 selectable input channel  |
| <b>Transmit Power</b>         | 38.5dBm, before antenna input  |
| <b>Volume</b>                 | Transmitter: 240.2 x 230 x 60 mm <sup>3</sup><br>SSPA: 182 x 150 x 25 mm <sup>3</sup>  |
| <b>Mass</b>                   | Transmitter: 2.2 kg<br>SSPA: 1.0kg / chain   |
| <b>Power Consumption (DC)</b> | 56 W<br>28V un-regulated power supply  |
| <b>CAN Network Interface</b>  | Telecommand and telemetry interface for configuration of the X-Band transmitter<br><br>CAN network interface for short packet transmission, 500 Kbps |



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Note: All specifications are subject to change without notice.  
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