



Glowlink® Model 3010

Uplink Power Control System

Next generation Uplink Power Control

The Model 3010 combats signal degradation with safe, effective, reliable uplink power management. This DSP-based system uses advanced Glowlink control technology to compensate for uplink atmospheric attenuation.

Best in class for accurate and reliable UPC

The Model 3010 incorporates advanced DSP control algorithms and has a built-in, digital high-precision L-band beacon receiver. Along with the beacon level and reference signals such as pilot or loopback carriers, the system verifies and refines uplink power levels, providing high performance for mission critical applications.

Groundbreaking technology prevents power overload

The Model 3010 also offers Transponder Compression Avoidance (TCA™), a powerful safety technology that mitigates transponder interference by preventing excessive UPC adjustments. Derived from Glowlink's patented spectrum monitoring algorithm TOP™, TCA™ is a state-of-the-art technology that automatically senses and prevents transponder compression.

Loss-of-Signal FailSafe feature

Glowlink's Loss-of-Signal FailSafe feature protects the communication link from incidental loss-of-signal for the loopback and beacon signal. Utilizing the high-resolution digitizer at the input of the loopback and beacon signal, the Model 3010 is able to detect when the loopback or beacon signal has been lost and protect fragile components along the communication path that would otherwise be susceptible to damaging, high power levels.

Ease of use, 'set-and-forget' power control operations

Beacon/pilot, attenuator channel, and loopback settings are each entered through the GUI at the click of a button. Historical data is also exportable directly into an Excel™ worksheet for quick and easy analysis of system operations.

Scalable and secure architecture

The Model 3010 is highly scalable, and can support 1-8 channels of traffic, with adjustment ranges of 31.75 dB in 0.25dB minimum steps. As an added safety feature, the Model 3010's failsafe attenuator paths provide guaranteed signal routing in the unlikely event that the system loses power.



FEATURE HIGHLIGHTS

- Effective across all frequency bands including Ka
- Built-in digital L-band beacon receiver
- Accurate, precise Beacon/pilot carrier monitoring
- Historical graphical display to verify power adjustment
- Loss-of-Signal FailSafe
- Failsafe signal path for added safety in operation
- Available with redundant, hot swappable power supply for added reliability
- Available with Transponder Compression Avoidance (TCA)™
- User friendly GUI



MODEL 3010 TECHNICAL SPECIFICATIONS

ATTENUATOR CHANNELS

Number of Channels	1-8
Frequency	50 – 1450 MHz (950-2150 MHz optional)
Full Adjustment Range	31.75 dB
Adjustment Resolution	0.25 dB
Input Return Loss	3.4 dB
Output Return Loss	20 dB
Input Impedance	75 ohms
Output Impedance	75 ohms
Connector Type	BNC
Failsafe Path Attenuation	Factory configurable

BEACON/PILOT, LOOPBACK INTERFACE

Input Frequency	950 - 1450 MHz (950-1950 MHz optional)
Input Impedance	50 ohms
Connector Type	BNC
Operating Input Range	-35 to 0 dBm
Max Input Level	+5 dBm

PHYSICAL

19-Inch Rack mount	Standard configuration: 1RU for up to 2 channels. 4RU for 3-8 channels. Please contact sales for additional available configurations.
Power	Auto select 110-230VAC
Frequency	47-63 Hz

MODEL 3010 OPTIONS

Transponder Compression Avoidance™
Redundant, hot swappable power supplies
Extended warranty

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