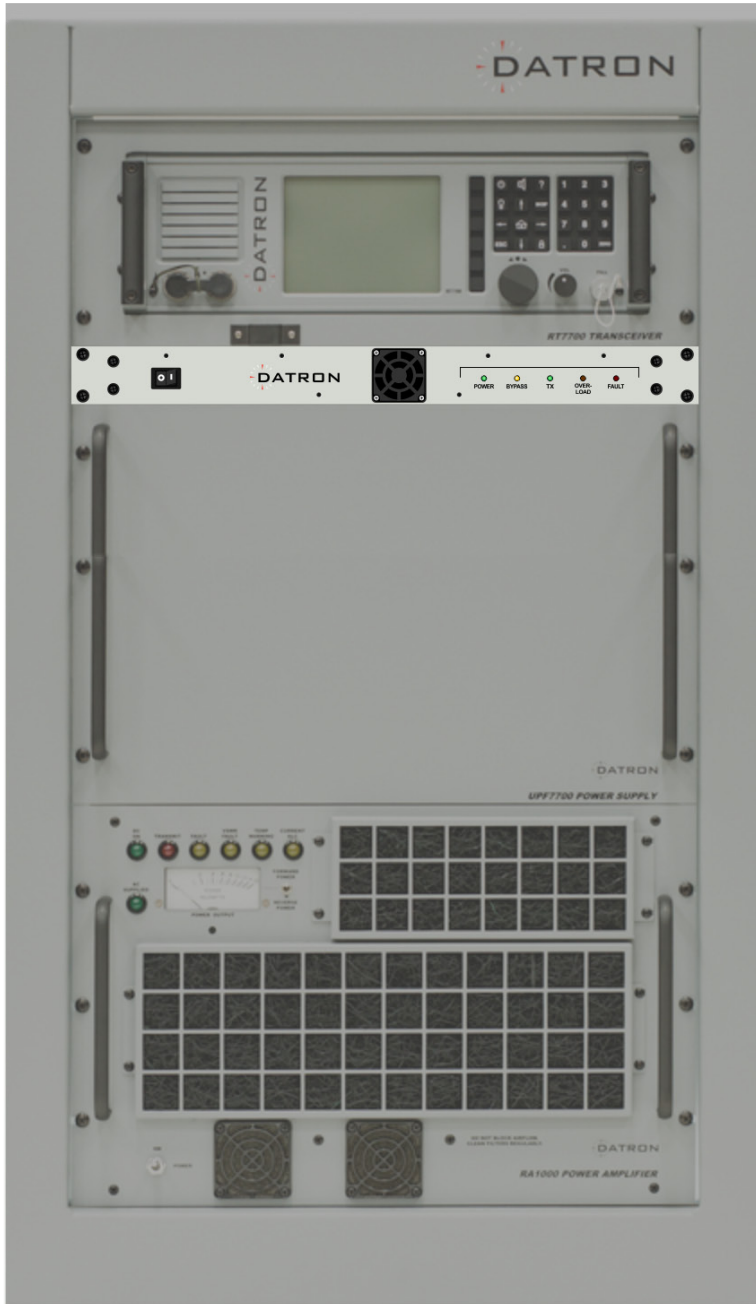


PPS7700

TACTICAL HF



Pre/Post Selector for RT7700H HF Radios



1 kW HF Naval System with PPS7700 Pre/Post Selector

Significant Co-site Performance

Datron's PPS7700 Pre/Post Selector enables operation of colocated Datron RT7700H transceivers, transmitters, and receivers with frequency separation as small as 5% and with 70 dB rejection at 10% of frequency. Unwanted received signals and spurious transmitter outputs are significantly reduced enabling colocated operation of two or more HF systems.

Full HF System Operation

The PPS7700 is digitally controlled by the RT7700H, providing fully automatic operation that supports 2G and 3G Automatic Link Establishment (ALE) modes with rapid tuning in less than 10 ms. Fully integrated built-in-test equipment (BITE) provides automatic power-on testing and fault detection.

Supports Wide Range of System Requirements

The PPS7700 is designed for rack-mounted systems for shipboard, vehicular, or base station use. Designed specifically for the RT7700H, the PPS7700 provides the performance and flexibility to meet virtually any system requirement.

Benefits

- 70 dB rejection at $\pm 10\%$ of frequency
- Flat response (TX and RX) over 2 to 30 MHz
- Automatic tune time of less than 10 milliseconds
- Automatic RF protection and Built-In-Test capability
- Full support of RT7700H ALE & Non-ALE radio operation

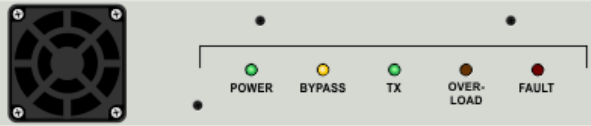
Visit www.dtwc.com to learn more or contact us at sales@dtwc.com or +1-760-597-1500.



TACTICAL HF

PPS7700

Pre/Post Selector for RT7700H HF Radios



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Certification # 08.347.1
ISO 9001:2015
Registered Quality System
Datron World Communications, Inc.

Subject to export regulations

Specifications subject to change without
notice - rev 181102

ELECTRICAL

- **TUNED FREQUENCY RANGE** 2 to 29.999 MHz
- **BANDWIDTH** ±2% at -3 dB
- **SIGNAL REJECTION** 35 dB at 5%
40 dB at 7%,
70 dB at 10% (typical)
- **ULTIMATE REJECTION** 70 dB (typical)
- **RF OVERLOAD PROTECTION** Enters protection mode above 10 Vrms input
- **NOISE FIGURE** 10 dB nominal
- **INTERMODULATION DISTORTION** Better than +35 dBm, (+40 dBm typical)
(3rd Order Intercept)
- **TUNING TIME** 10 ms (maximum)
- **REMOTE CONTROL** Serial (RS-232)
- **BIT SYNTHESIZER RANGE** 2 to 30 MHz
- **TX INHIBIT** Inhibits all transmissions while activated
- **Built-In Test (BIT)** The response of the internal networks are tested across multiple frequencies at power-up, or by external command. Unit is completely calibrated and requires no external test equipment.

ENVIRONMENTAL

- **TEMPERATURE** OPERATING: 0° to +55°C
STORAGE: -40° to +85°C
- **HUMIDITY** Less than 95% (non-condensing)
- **ALTITUDE** Up to 10,000 ft. (3050 m)

GENERAL

- **SIZE** H: 1.75 in. x W: 19 in. x D: 19 in.
(4.45 cm x 48.3 cm x 48.3 cm)
- **WEIGHT** 12 lbs (5.4 kg)
- **FRONT PANEL CONTROLS** Power on/off switch
- **FRONT PANEL INDICATORS** POWER LED
BYPASS LED
TX LED
OVERLOAD LED
FAULT LED



www.dtwc.com