NEW PRODUCT ANNOUNCEMENT
T800-37-0000 Paging

Modem/Delay

Modem / Delay board
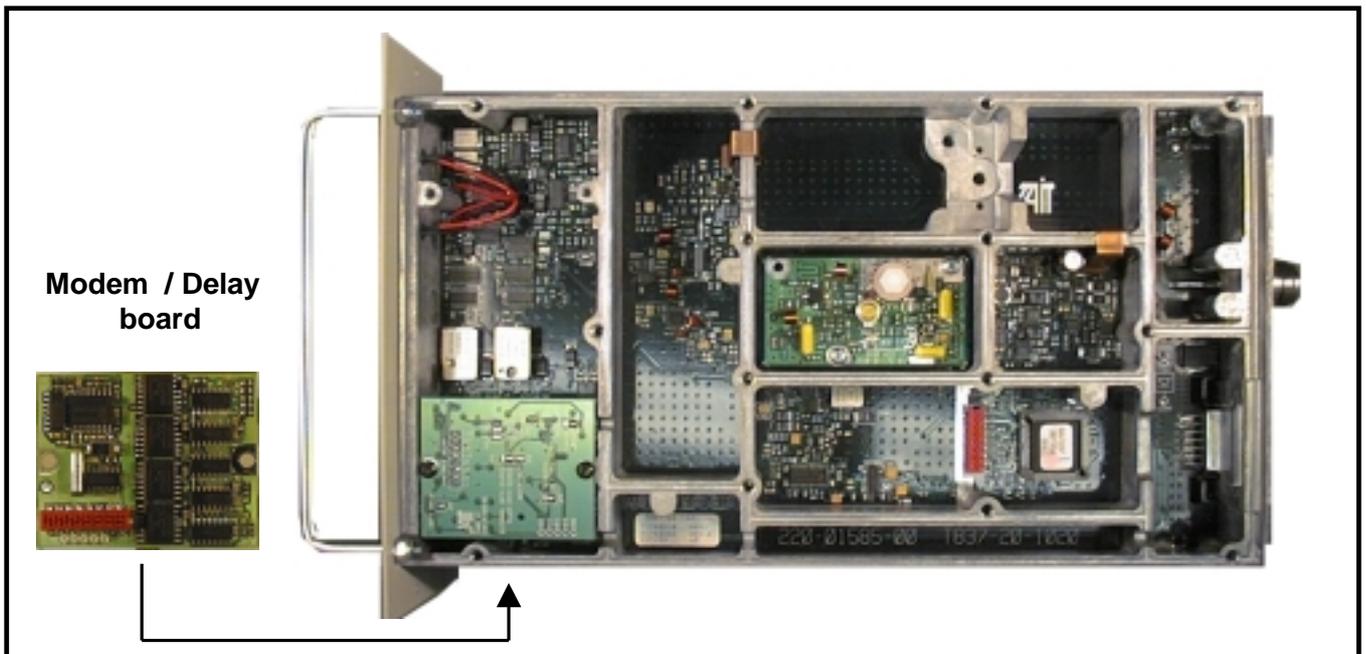
OVERVIEW

The T800-37-0000 is a price-competitive asynchronous modem and digital delay line intended for use with the new T837-20-1020 VHF paging exciters. It can be used in single-site or multi-site radio-linked networks carrying pocsag 512 and/or 1200 traffic.

As shown in the photograph, the board mounts component side down in the exciter and connects to the main exciter pcb via a small ribbon cable assembly.

In multi-site simulcast networks, the digital delay is used to compensate for signal propagation time from the common link Tx to each outlying paging transmitter. Delay is programmed at installation time and is adjustable from 0 to 5msec in 3.35usec (1km) steps.

The T800-37-0000 does not contain sufficient intelligence to fully decode PURC[R] tones for either sequential paging or mixed speech plus data paging. However, it **can** co-exist with other PURC type paging transmitter controllers in **data-only** simulcast networks, and so it is well suited to expansion of such networks.

Using complementary Tait RF products, complete single-vendor solutions can be easily and cost-effectively configured.

[R] PURC is a registered Trademark of Motorola Inc.

BENEFITS and OPERATIONAL FEATURES

Cost-effective Functionality	As many paging markets are mature and cost-competitive, the T800-37-0000 contains no unnecessary 'extra' features. It simply provides reliable paging functionality for the cost-conscious network operator.
Quick Installation	Plug-in design and solder bridge configuration (with all links on the track side) reduces system configuration time. Simply: • Fit the board (ribbon cable and two screws) • Program the digital delay • Select the data polarity • Select the desired tail time (0 or 250msec)
Reliability	Extensive smd technology and high quality components.

TECHNICAL SPECIFICATIONS

Modem Standard	V.23: Logical 1=1300Hz(+/-12 Hz), logical 0=2100Hz (+/-22 Hz) Bell 202: Logical 1=1200Hz(+/-12 Hz), logical 0=2200Hz (+/-22 Hz)
Data Rate	512 and 1200bps asynchronous
Dimensions	45mm x 55mm
Operational Temperature	-30 to +60 deg C
Supply Voltage	5VDC (derived from radio via ribbon cable)
Supply Current	<20mA
Delay Technology	Solid state digital (Long shift register)
Delay Range	0 to 5000 usec
Delay Adjustment	3.35usec or 6.7usec steps (1km or 2 km)
Tx Key	Key on modem carrier detect
Tx Tail Time	0 or 250msec selectable

ORDERING INFORMATION (Modem)

T800-37-0000	1200bps asynchronous modem and digital delay line for T837-20-102x

ORDERING INFORMATION (Complementary Products)

T837-20-1020	VHF Paging exciter 25kHz bandwidth, 1ppm stability
T837-21-1021	VHF Paging exciter with external reference option
T839-20-1020	100W VHF power amplifier
T855-20-0000	Typical UHF link receiver
T856-20-0000	Typical UHF link transmitter
T808-10-0000	25A 100/220VAC PSU
T800-28-0000	Paging rack for use with above Tait products. Inter-module connections via T800-55-0000 pcb backplane.

Tait Electronics reserves the right to update and amend these specifications without notice