



## Transfer Panel

- Hitless Switch
- Space, Frequency and Hot Standby Protection
- Front Panel for Setup & Diagnostics
- SNMP Manageable
- Support Multiple Traffic Capacities
- Module Units Allow Change of Frequencies and Configurations

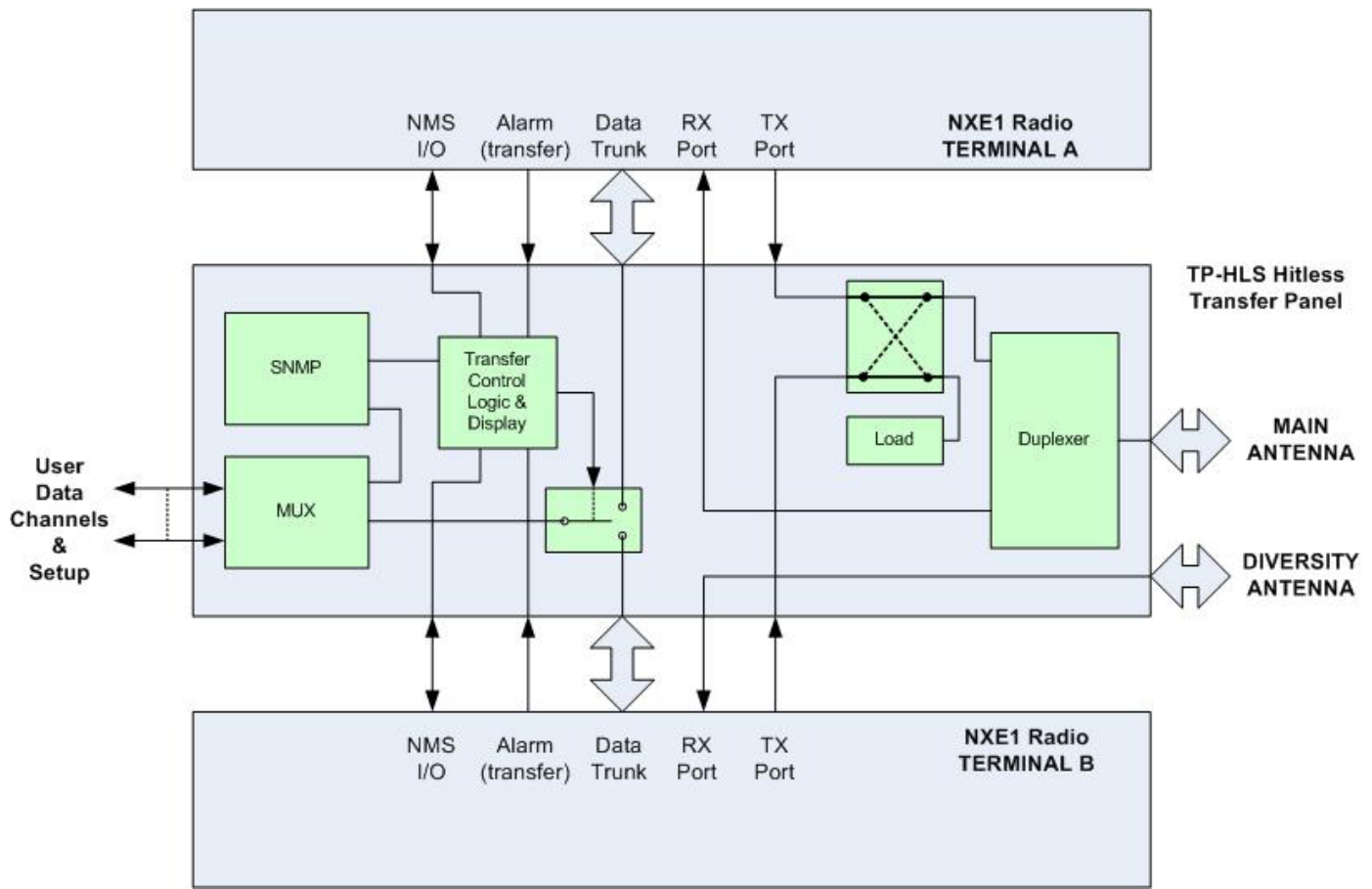
The TP-HLS is a hitless-switched transfer panel that provides automatic control of a protected radio terminal. A protected radio terminal consists of two standard NXE1 terminals interconnected by a TP-HLS hitless protection switch. The HP-HLS hitless switch is housed in a 3U chassis and typically mounted between the NXE1 terminals.

An internal processor monitors the condition of the NXE1 radios and responds to major alarm conditions, triggering a “hitless” switchover between the terminals on fault conditions. The “hitless” design of the transfer panel allows the panel to select the healthiest received data path and switch to that terminal with an uninterrupted switchover, without bit loss or synchronization loss. The TP-HLS is easily configured from the front-panel menu. Protected modes may be selected from:

- 1) fully automatic transfer
- 2) automatic transfer with preference to terminal A or B
- 3) forced on
- 4) standby modes

Status is indicated on the LCD display, status LEDs from the front panel, and via SNMP. The TP-HLS allows independent operation of terminal receive and transmit functions, allowing for instance transmission on terminal A while receiving on terminal B or visa versa. The protected terminal may be operated in standard and space-diversity configurations.

# TP-HLS TRANSFER PANEL



## SPECIFICATIONS

<b>Redundant Standby System Frequency Range</b>	0.5 - 4.0 GHz (limited by power divider)
<b>TX Relay Frequency Range</b>	0 to 18 GHz
<b>TX Relay Insertion Loss</b>	0.5 dB max. (0-4 GHz) reduction in NXE1 transmit power
<b>TX Relay Isolation</b>	80 dB min. (0-4 GHz)
<b>TX Relay VSWR</b>	1.2:1 Max. (0-4 GHz)
<b>TX Switching Type</b>	Make before Break, Transfer Switch (standby TX switched into 50 ohm power termination)
<b>TX Relay Life</b>	1 x 10 <sup>6</sup> cycles
<b>TX Relay &amp; RX Power Divider RF Connector Type</b>	50 ohms type N (female)
<b>RX Power Divider + Filter Insertion Loss</b>	4 dB maximum reduction in receive signal
<b>Control I/O Interface</b>	Radio A & Radio B SNMP via service channel
<b>Power</b>	10 Watts without channel cards, 30 W typ. DC Power Supply Input: +/- 24/48 VDC Optional AC Supply: 115/230 VAC Optional Redundant Supplies (consult factory) Optional Internal Supply supplied by Primary and Secondary Radios (consult factory)
<b>Temperature</b>	Operational range -30° to 60° C
<b>Humidity</b>	95% noncondensing
<b>Shipping Weight</b>	25 pounds

These specifications are subject to change without notice. Rev. 121211

