1900 MHz (PCS + GSM) DAS Conditioning Tray

Features

- Provides a single connection point for cellular base stations in either AWS or PCS spectrum at either BTS port
- Integrated variable step attenuation for each channel
- Adjustment range of 30 dB with 1 dB increments
- MIMO deployment configuration
- Passive DAS assembly without external power requirements
- Each BTS port feeds both sectors A & B & both sectors A & B feed each BTS port

API's DAS Interface Tray provides a single connection point when using single or multiple base stations by standardizing the connection between the BTS and the DAS head-end equipment and improving the uplink signal with minimal impact to the receive signal. API's low PIM DAS Interface Tray provides integrated variable step attenuation in the Tx (DL) path for each input with an adjustment range of 30 dB with 1 dB increments.

Technical Specifications

RF Electrical	Typical Specifications
Frequency Range: PCS + GSM	Rx (UL): 1850 – 1915 MHz Tx (DL): 1930 – 1995 MHz
DL (TX) Loss	20 – 50 dB +/- 1 dB in 1 dB steps (18 dB cable attenuator installed. Other attenuation levels available upon request)
UL (RX) Loss	1.5 – 31.5 dB in 1 dB steps
Tx – Rx Isolation	70 dB Min
Input Power	Maximum 60 Watts
Return Loss (VSWR)	-18 dB (1.3:1)
PIM3	<- 153 dBc, measured in Rx Block using two + 43 dm tones in corresponding Tx Block

Mechanical	Specification
Number of DAS Connections / Channel	2 Each: 1 – DAS Tx (N-F) 1 – DAS Rx (N-F)
Number of BTS Connections / Channel	1 Each: BTS Tx/Rx (N-F)
Number of LMU Connections / Channel	2 Each: Tx Monitor (SMA-F) Rx Monitor (SMA-F)
Dimensions	Standard 1or 2 U 19" rack mount Actual dim: 3.50 or 1.75" (H) 19" (W) 17.25" (D)
Operational Temp	0°C to +50°C
Finish	White Epoxy Paint (Rack Panel only)
Mounting	1 or 2 U Rack (front mount ears)

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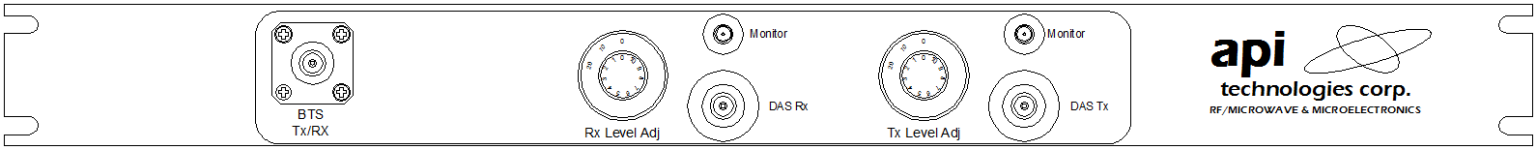
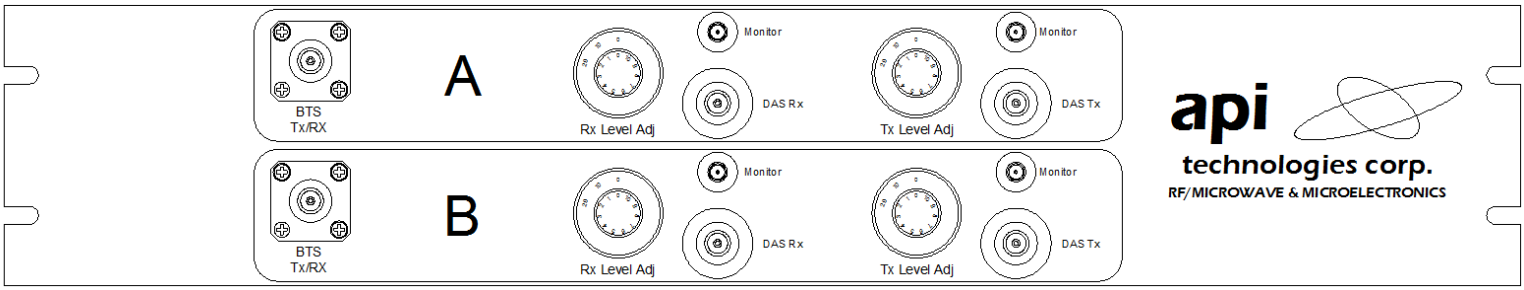
Front Panel



Single



Dual

Functional Block Diagram (per channel)