

AWS/PCS DAS Conditioning Tray

MIMO E-Node B Configuration DAS System

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: AWS / PCS	AWS UL: 1710 – 1755 MHz DL: 2110 – 2155 MHz	PCS UL: 1850 – 1910 MHz DL: 1930 – 1990 MHz
DL (TX) Loss	27.5 – 57.5 dB +/- 1 dB in 1 dB steps (20 dB cable attenuator installed. Other attenuation levels available upon request)	
UL (RX) Loss	7.25 dB Typical	
Input power	Maximum 80 Watts per Input Port	
Return Loss (VSWR)	-18 dB (1.3:1)	
PIM3	≥ -153 dBc	

Mechanical	Specification	
Number of DAS Connections	2 Each:	1 – Sector A (N-F) 1 – Sector B (N-F)
Number of BTS Connections	2 Each:	1 – Tx/Rx1 (N-F) 1 – Tx/Rx2 (N-F)
Number of LMU Connections	2 Each:	Tx1 Monitor (SMA-F) Tx2 Monitor (SMA-F)
Dimensions	Standard 1 RU 19" rack mount Actual dim: 1.75" (H) 19" (W) 17.25" (D)	
Operational Temp	0°C to +50°C	
Finish	White Epoxy Paint (Rack Panel only)	
Mounting	1 RU Rack (front mount ears)	

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Front Panel



Functional Block Diagram

