# Microlab HPOI Matrix

High Power Point of Interface (HPOI) Solutions for DAS
Four Channel, Single and Mixed Frequency Bands
Rev A


Microlab DCC Control Rack (DCR) units can be used as stand-alone base station interface to DAS if the input power levels are at a low value, but generally it is meant to work with High Power Point of Interface (HPOI) Modules. These HPOIs are 1RU to 2RU high, 19" wide with self cooling. The design approach allows for cost effective compact application within the DAS. This is ideal for small venues, multiple small cells, and add-ons for large venues and existing passive DAS trays without the need for expensive modular equipment expenditures. Microlab has developed a wide variety of standard HPOIs, which can quickly be installed in conjunction with a standard DCR into the perfect custom monitor and/or attenuation system solution. (11/14_1)

## Standard DCR Models:

| Base Models | Description |
|---|---|
| **DCC500-A01** | 4 channel low power Active DAS tray with power monitoring and attenuation control (+18dBm max avg input) |
| **DCC550-A01** | 12 channel power monitoring only DAS Tray |
| **DCC560-A01** | 4 channel attenuation control only DAS Tray |

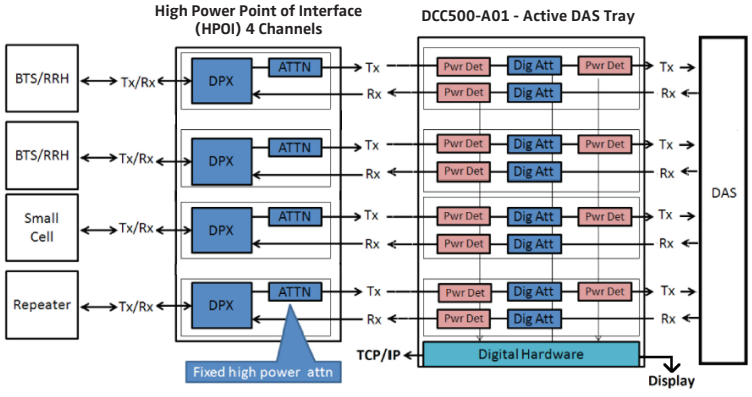
## HPOI Model Matrix for Frequency Band Selection:

| MODELS* (Other Band Combinations are available) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Power Input Tx** | **Insertion Loss Tx** | **EIA Rack Height** | **700 MHz Upper C** | **2100 MHz AWS** | **700 + 2100 MHz AWS** | **EIA Rack Height** | **850 MHz** | **1900 MHz** |
| **60 W** | **31 dB** | **2 RU** | DCC502-A48[C/D] | DCC506-A48[C/D] | DCC520-A48[C/D] | **2 RU** | DCC503-A48[C/D] | DCC505-A48[C/D] |
| **20 W** | **31 dB** | **1 RU** | DCC502-A43[C/D] | DCC506-A43[C/D] | DCC520-A43[C/D] | **2 RU** | DCC503-A43[C/D] | DCC505-A43[C/D] |
| **5 W** | **21 dB** | **1 RU** | DCC502-A37[C/D] | DCC506-A37[C/D] | DCC520-A37[C/D] | **2 RU** | DCC503-A37[C/D] | DCC505-A37[C/D] |
| **0.5 W** | **11 dB** | **1 RU** | DCC502-A27[C/D] | DCC506-A27[C/D] | DCC520-A27[C/D] | **2 RU** | DCC503-A27[C/D] | DCC505-A27[C/D] |
| ***Add BTS connector designator to end of model #: C for 4.1-9.5 DIN, D for 7-16 DIN** | | | | | | | | |

## Common Specifications:

| | |
|---|---|
| **Number of Tx/Rx Ports** | 4 |
| **Rx Insertion Loss** | 2 dB |
| **Variable attenuation in 1 dB steps** | Tx: 0-31 dB<br>Rx: 0-62 dB |
| **Tx Isolation (Tx/RX)** | >70 dB |
| **PIM (Intermod) (+43dBm x2 in Tx Block)** | <-153 dBc,<br>-160 Typical |
| **Impedance** | 50 Ω nominal |
| **Connector Type Input:** | 4.1-9.5 or 7-16 DIN |
| **Output:** | SMA |
| **Environment** | 0-50 °C /<br>32-131°F |
| **Size** | 19" W x 17" D |

## Application of HPOI in DAS:




Microlab, A Wireless Telecom Group Company, 25 Eastmans Road, Parsippany, NJ 07054
Tel: (973) 386-9696 • sales@microlab.fxr.com • www.microlab.fxr.com • Fax: (973) 386-9191