

# ClearLink® DAS Interface Unit (DIU)



## General Description

Westell formerly Cellular Specialties, Inc. (CSI) ClearLink® DAS Interface Unit (DIU) simplifies the interconnection of repeaters and base stations into a distributed antenna system (DAS). These units are designed to exceed each carrier's PIM performance requirements and can be customized to meet virtually any combination of frequency bands and port configurations.

## General Information

- Interconnects BTS or repeater to single host or multicarrier DAS while providing test ports and variable attenuation at the head end so you can adjust Tx and/or Rx levels non-intrusively
- Customized to meet specific site BTS and DAS head end requirements
- Perfect for small cell applications
- Cost effective and space saving integrated solution. Westell will engineer a high performance interface utilizing minimal rack space.
- Easy to install, rack mountable enclosure can also be wall mounted
- The all passive component architecture ensures high reliability and requires no external power supply
- Variable attenuation from 0 to 30 dB
- Handles power levels up to 48 dBm (65W)

## Customized Architecture for Specific Deployment Requirements

The ClearLink DIU is engineered to fit your deployment requirements. Customizable features include:

- Supported frequencies: Lower LTE 700, Upper LTE 700, AWS, Public Safety 700, SMR 800, SMR 900, Cellular 850, PCS 1900, PCS G
- Attenuation: fixed, variable and/or none
- Connector types: N Female, 7/16 DIN, Mini DIN, QMA or SMA (mix and match if desired). Others available upon request
- Port configurations:
  - Front and/or back panel placement of ports
  - Simplex, duplex or mixed if desired
  - SISO or MIMO

Contact Westell today to create a customized DIU tailored to meet your needs.



## Features & Benefits

- Meets carrier PIM requirements
- Connects DAS to BTS or repeater
- Customizable to support virtually any combination of RF bands and technologies
- Easy to install, rack or wall mount
- Variable attenuation available
- Tx/Rx test ports available
- Also available in 16" chassis depth

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## Electrical Specifications

Passband options	Lower LTE 700, Upper LTE 700, AWS, Public Safety 700, SMR 800, SMR 900, Cellular 850, PCS 1900, PCS G
Attenuation (optional)	
Fixed*	High power varies
Variable	0 to 30 dB, 1 dB increments
PIM	Meets carrier PIM specifications as low as -161 dBc (2 x 43 dBm)
VSWR	≤1.3:1
Rejection	>80 dB
Power Handling	Up to 65 watts max
Number of inputs	Up to 20, customized for application
Number of outputs	Up to 20, customized for application

## Mechanical Specifications

Dimensions	20 in x 19 in x 3.5 in
Connectors	N Female, 7/16 Mini DIN, QMA or SMA (mix and match if desired). Others available upon request.
Operating temperature	-15° C to +40° C

## Accessories



Adjustable Vented Shelf (2 or 4 post racks)

19" or 16" versions available

