



# sDAS Dual Band RAU RAU-1/3\_01

## Overview

sDAS series is a fiber Distribution Antenna System. The sDAS offers the industry leading and most innovative technology to help mobile operator to extend the RF signal coverage into any indoor/outdoor environment from small to large scale. Indoor/outdoor coverage network becomes a manageable services and a new business model.



A sDAS system includes the HEU and RAU.

RAU is the remote antenna unit which extends the RF signal through a single fiber.

RAU can be ceiling, pole or wall mounted with built-in or external antenna options.

## Key Features

- Distribute the LTE signal via a fiber network
- Source/Technology independent
- Dual Band in a single optical fiber
- Star & Daisy chain hybrid topology
- Optics/RF Auto-calibration
- Multi-operator
- SNMP
- RoHS compliant

## Applications

- Indoor coverage
- Tunnel coverage
- Rural area signal extension
- Shadow area signal enhancement

## Specification

RAU-1/3_01		
Radio Interface	RF1 Frequency Range	Uplink : 1710 ~ 1785MHz Downlink : 1805 ~ 1880MHz
	RF2 Frequency Range	Uplink : 1920 ~ 1980MHz Downlink : 2110 ~ 2170MHz
	Omni Antenna Gain	4dBi
	Panel Antenna Gain	9dBi
	NC type	N type (F) connector x 2
	Downlink Output Power	FDD : +12 ~ +18 dBm per port, 1dB/step. +18 dBm per port power supports 64QAM 5/6 OFDM at 4% EVM
	Uplink Noise Figure	6dB max. at max. UL gain
Fiber Interface	Fiber Connector	SC/APC x 2
	Built-in Optical Tapper	Tapped 20%, Through 80%
	Wavelength Allocation	Downlink : 1550nm , Uplink : 1310nm
	Laser O/P Power	-1dBm typical, -2.5dBm minimum
	Optical RX Sensitivity	-2dBm
Power Supply	Power input	802.3at – B type Compatible
	DC Input Range	+36 ~ +58 VDC
	Power Consumption	20W Max.
Environmental	Operating Temp Range	0 ~ +45 °C
Dimensions & Weight	Dimensions	230 (L) x 142 (W) x 80 (H) mm
	Weight	1.4 Kg
Mounting		Wall Mount or Pole Mount
<b>RAU LED</b>	<b>Color</b>	<b>Description</b>
PWR	Green	Power on
	Red	RAU system DC abnormal
Fiber	Green	RAU has been provisioned and calibrated
	Flash Green	RAU has been provisioned but is standby for calibration or under diagnostic test or firmware upgrade
	Dark	Low optical power



System Function and Features		
Initialization and Configuration	RF Power & Frequency	Based on BTS input power level set optimal HEU RF operating point
	RAU Serial Number	S/N display on GUI after RAU topology set
	Fiber Connection Loss	Display on GUI after RAU topology set
	Downlink Path Diagnosis & Calibration	RAU output power default: +18dBm per port, +21dBm total
	Uplink Path Calibration	Default: 0dB gain from RAU antenna port to HEU RF port
Normal Operation Mode	RAU Link Parameter Monitoring	Downlink output power : aggregated total power Fiber loss display
	HEU Link Parameter Monitoring	RF1/RF2, D/L input power level from BS, 15MHz bandwidth for each selectable channel, center frequency 5 MHz/step
Certification		NCC/CE

Specifications are subject to change without prior notice.

RAU order information:

1. N-type Connector : RAU-1/3\_01NC
- 2 Built-in Panel Antenna : RAU-1/3\_01PA
- 3 Built-in Omni Antenna : RAU-1/3\_01OA