

Un-Wire Your Digital World

sDAS Head End Unit

Overview

sDAS series is a fiber Distribution Antenna System. The sDAS offers the industry leading and most innovative technology to help mobile operator 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. The HEU can take RF signal from any source like Macro/Pico/Repeater/Small Cell and distribute the signal to RAUs in different locations via the single fiber. Each HEU can convert and distribute the RF signal to max. six RAUs to 5km distance. Both star and daisy chain topology are supported

Key Features

- Distribute the LTE signal via a fiber network
- Source/Technology independent
- 2 by 2 MIMO in a single optical fiber
- Star & Daisy chain hybrid topology
- Optics/RF Auto-calibration
- Single-band multi-operator
- SNMP
- RoHS compliant

Applications

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

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Specification

HEU					
RF Interface	Frequency Range	Refer to Table HEU			
	BTS Antenna Interface	N Type Female x 2, support multiple BTS inputs up to 4 LTE BTS per port			
	RF1	RF1 signal from BTS			
	RF2	RF2 signal from BTS			
	Input Power Range	+10 ~ +30 dBm per port			
	Power Overload	Shut down downlink path when RF input power >			
	Protection	+35dBm per port			
	Input Return Loss	≧14dB			
Fiber Interface	Fiber Connector	SC/APC x 2, each fiber interface supports up to 3ea			
		RAUs in daisy chain configuration			
	Wavelength	Downlink : 1550nm Uplink : 1310nm			
	Laser O/P Power	5.5dBm typical. 4dBm minimum			
	Optical RX Sensitivity	-8.5dBm			
Power,	Interface	10/100 BaseT, RJ45 connector			
Control and	Power Input	802.3at			
Monitoring	DC Input Range	+36 ~ +58 VDC			
	Power Consumption	12W			
Environmental	Operating Temp Range	0 ~ +45 ℃			
Dimensions &	Dimensions	218 (L) x 146(W) x 42(H) mm			
Weight	Weight	1.4 Kg			
Mounting		Standard 1U rack mount interface			
HEU LED	Color	Description			
Power	Green	Power on			
	Red	HEU system DC abnormal			
HEU	Green	Normal mode			
	Flash Green	1. Calibration mode, or			
		2. Firmware upgrade			
	Red	Failure alarm			
RF1/RF2	Green	RF signal detected			
	Dark	No RF signal			
RAU1/2/3	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			
	Red	RAU connection failed after provisioned			
	Dark	RAU doesn't provision yet			

Specifications are subject to change without prior notice.

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Table HEU

Band	Duplex Mode	Frequency		Model No. / Option
1	FDD	Uplink	1920 ~ 1980MHz	HEU-01_01
		Downlink	2110 ~ 2170MHz	
2	FDD	Uplink	1850 ~ 1910MHz	HEU-02_01
		Downlink	1930 ~ 1990MHz	
3	FDD	Uplink	1710 ~ 1785MHz	HEU-03_01
		Downlink	1805 ~ 1880MHz	
4	FDD	Uplink	1710 ~ 1755MHz	HEU-04_01
		Downlink	2110 ~ 2155MHz	
17	FDD	Uplink	704 ~ 716MHz	HEU-17_01
		Downlink	734 ~ 746MHz	
28	FDD	Uplink	703 ~ 748MHz	HEU-28_01
		Downlink	758 ~ 803MHz	
40	TDD		2300 ~ 2400MHz	HEU-40_01
41	TDD		2496 ~ 2690MHz	HEU-41_01

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