

## OneDAS – Master Distribution Unit + Remote Distribution Unit

	MASTER DISTRIBUDION UNIT(MDU)	REMOTE DISTRIBUTION UNIT(RDU)												
<b>1. Technology Specifications:</b>														
<b>Supported Technologies</b>	CDMA, GSM, DCS, UMTS, LTE (TDD & FDD)													
<b>Supported Bands</b>	CDMA850 : 806-824/ 851-869 MHz LTE850: 824 – 844 MHz / 869 – 889 MHz GSM900: 890 – 915 MHz / 935 – 960 MHz GSM1800 / LTE1800: 1710 – 1785 MHz / 1805 – 1880 MHz UMTS2100: 1920 – 1980 MHz / 2110 – 2170 MHz LTE2300: 2300-2400 MHz (any contiguous 75MHz)													
<b>Supported LTE Configurations</b>	UL/DL Configurations: Config 0-6 Special Subframe Configurations: Config 0-8 (Operators in the same band to operate on - Same UL/DL and Special sub-frame configurations; Same clock or Sync)													
<b>Radio Coverage</b>	Voice Coverage -for all services Data & Quality KPIs- <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Technology</th> <th>Service</th> <th>CINR</th> </tr> </thead> <tbody> <tr> <td>GSM EDGE-MCS</td> <td>7-44.8kbps</td> <td>23.5 Db</td> </tr> <tr> <td>CDMA EV-DO-DL</td> <td>1843200</td> <td>8 dB</td> </tr> <tr> <td>UMTS HSDPA-DL</td> <td>7.2M (QA-1/2-15)</td> <td>6 dB</td> </tr> </tbody> </table>		Technology	Service	CINR	GSM EDGE-MCS	7-44.8kbps	23.5 Db	CDMA EV-DO-DL	1843200	8 dB	UMTS HSDPA-DL	7.2M (QA-1/2-15)	6 dB
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<b>2. Optical Specifications</b>														
<b>Optical Power</b>	+5 dBm (3mW)	+5 dBm (3mW)												
<b>Downlink Output Power</b>	>22dBm@50 Ohm Impedance	NA												
<b>Power Limiter Function for Optical laser</b>	Yes	NA												
<b>Plug and Play Functionality</b>	Yes	NA												
<b>Optical Link Loss</b>	5 dBo (Max)													
<b>Fiber Type</b>	SMF													
<b>UL Wavelength</b>	1550 nm (Typical)													
<b>DL Wavelength</b>	1330 nm (Typical)													
<b>Supported Distance</b>	10 Kms (Min)	10 Kms (Min)												
<b>Optical Interfaces</b>	4	1												
<b>Optical Connector</b>	SC/APC	SC/APC												
<b>3. RF Specifications</b>														
<b>RF Input Power Without Damage</b>	Upto +15 dBm with ALC or +10dBm without ALC	NA												
<b>RF Output Power (Composite)</b>	NA	+40 dBm      +33 dBm												
<b>RF Link Gain</b>	0dB (MDU converts only RF to Optical)	50dB max. (downlink)												
<b>Uplink RF Input Level</b>	NA	-10dBm												
<b>RF Interfaces</b>	2	1												



Making your Mobile Net\*Work\* Better

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	MASTER DISTRIBUTION UNIT(MDU)	REMOTE DISTRIBUTION UNIT(RDU)	
RF Port Connectors	QMA(F)	N(F)	
<b>4. EMS Specifications</b>			
Remote Management	GPRS Modem / Optical (Optional)		
System Monitoring Port (Using GUI)	USB Port	USB Port	
<b>5. Power Specifications</b>			
Power Supply	-48V DC or AC90-264V, 45-65Hz	-48V DC or AC90-264V, 45-65Hz	
Power Consumption	50 W (Max)	800 W (Max)	
<b>6. Mechanical Specifications</b>			
Dimension (H x W x D)	89 x 483 x 402 (mm)	950 x 410 x 210 (mm)	
Weight	≤ 20.0 Kgs	≤ 65.0 Kgs	
Mounting Type	Rack Mount	Pole / Wall Mount	
Heat Dissipation	Natural Convection	Natural Convection	
Type	Indoor (IP40)	Indoor (IP54)	
<b>7. Environmental Specifications</b>			
Operating Temperature	-10°C to + 55°C		
Storage Temperature	-20°C to + 70°C		
Relative Humidity	95%		
MTBF	≥ 100,000 Hrs		
Model Number	FR-ODAS-MU-44	FR-ODAS-RU-40	FR-ODAS-RU-33
<b>8. Standards</b>			
EMC	ETSI EN 301-489/1 or Equivalent 3GPP standard		
GSM 900RF	ETSI EN 300-609-4 or equivalent 3GPP standard		
GSM 1800RF	ETSI EN 300-604-4 or Equivalent 3GPP standard		
UMS 2100RF	ETSI EN 301-908-11 or Equivalent 3GPP standard		
Optical Laser diode	IEC/EN 60 825-1,Class 1		
Fiber Optic Link	IEC/EN 60 825-2		
Safety	IEC/EN 60950		
Spurious Emission	9KHz 1GHz: Max. -36 / 1GHz 12.75GHz: Max: -30		