

## **DATASHEET**

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Reference: 010068A

Date application :

## Optirep\_SingleBand 800\_900\_1800\_2100\_2600 MHz

## ❖ General description

The **OPTIREP SingleBand** is flexible equipment that allows to ensure the continuity of mobile radiocommunications in the places or insufficiently covered infrastructure.

Built in IP65 box the repeaters can be installed indoor or outdoor and in the most difficult environments.

Its low power consumption allows to be powered by by "solar panels".

Equipment can be remotely managed using its supervisory module E2M (WEB server / integrated SNMP). Remote access is available via Ethernet and GPRS modem.

Optical distance 12 dBo (approx. 20 km)



♣ Technical Characteristics system								
RF characteristics		700 MHz	800 MHz	900 MHz	1800 MHz	2100 MHz	2600 MHz	
Frequei	ncy TX	758~788	791~821	925~960	1805~1880	2110~2170	2620~2690	
	e RX	703~733	832~862	880~915	1710~1785	1920~1980	2500~2570	
Gain		60 – 90 dB						
Ripple in bandwidth		≤ 2dB						
Intermodulation		≤ -30 dBm @ ≥ 1 GHz ; ≤ -36 dBm @ ≤ 1 GHz						
Noise factor		≤ 5 dB @ Gain max						
Group delay		≤ 5 µs (Excluding fiber)						
			4	Sub-band	filtering			
		700 MHz	800 MHz	900 MH	z 1800 MHz	2100 MHz	2600 MHz	
Number of filter max		12						
	Adjustable bandwith	from 100 kHz to 30 MHz		from 200 kH 35 MHz			from 100 kHz to 60 MHz	
For each filter	Adjustable central frequency	from f <sub>0</sub> to f <sub>0</sub> + 15 MHz		from f <sub>0</sub> to 1 17.5 MH		+ from f <sub>0</sub> to f <sub>0</sub> + 30 MHz	from f <sub>0</sub> to f <sub>0</sub> + 35 MHz	
	Adjustable attenuations		from 0 dB to -30 dB					

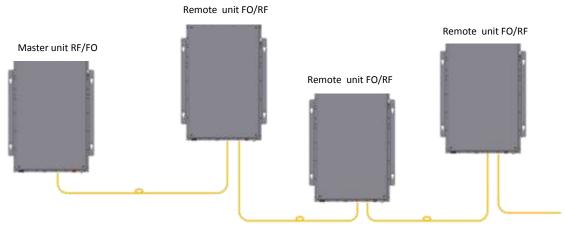


According to model DAT1448C



## Optirep\_SingleBand 800\_900\_1800\_2100\_2600 MHz

♣ Technical Characteristics remote unit								
RF characteristics		700 MHz	800 MHz	900 MHz	1800 MHz	2100 MHz	2600 MHz	
Frequency range	TX	758~788	791~821	925~960	1805~1880	2110~2170	2620~2690	
	RX	703~733	832~862	880~915	1710~1785	1920~1980	2500~2570	
UL composite nominal power	RF/FO master	+ 22 dBm						
DL composite nominal power			dBm	+ 34 dBm		+ 36 dBm		
Optical links	RF/FO master	2 outputs including 1 available as an option for star chain configuration						
Optical links	FO/RF remote	2 outputs including 1 available as an option for daisy chain configuration						
			<b>↓</b> O <sub>I</sub>	otical interf	ace			
Technolog	gy used	Transmission / reception in WDM on a single fiber						
Wavelength	RF/FO master	1550 nm						
emission	FO/RF remote	1310 nm						
Optical Output Power		4 dBm ± 2 dB						
CAG (Automatic compensation of optical balance)		12 dBo						
Optical connector		SC / APC						
Optical fiber		SMF G652D or G657A2						





♣ Mechanical & Electrical characteristics							
❖ Electrical characteristics							
Volt	age	230 Vac or 48 Vdc optional					
Power	issued	130 W					
Effic	acity	86%					
❖ Interface							
Conn	ector	N-Female					
❖ Mechanical characteristics							
Dimensions except	Outdoor Box	350 X 550 X 102 mm					
fixations (L x H x D)	Rack version 19"	sur demande					
We	ight	13 Kg					
Cod	oling	Natural convection					
Protecti	on class	IP65					
Operating t	empérature	Between -20°C and 50°C					
❖ Monitoring							
Centralized in the master via TCP / IP connection on the fiber							

