



PRODUCT DATASHEET

Remote Optical Unit (ROU)

TETRA Band

Model No: FR-ROU400-33



380–380.5 MHz
Uplink frequency

390–390.5 MHz
Downlink frequency

33 dBm
Downlink RF output power

45 dB
Typical gain

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A wall-mounted Remote Optical Unit (ROU) for the **380–380.5 MHz** uplink and **390–390.5 MHz** downlink bands, delivering **33 dBm** RF output power through a single combined Tx/Rx N-type port, with RJ45 local control for indoor and outdoor installation.



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Key Features

- Uplink 380–380.5 MHz and downlink 390–390.5 MHz
- Downlink RF output power of 33 dBm; typical gain of 45 dB
- Gain adjustable 0–31 dB in 1 dB steps; ALC range greater than 30 dB
- Single combined Tx/Rx N(f) port; 1 × LC/UPC optical port
- IMD better than 45 dBc (downlink); low system delay of less than 1 μs
- Local control via RJ45; optional remote via LTE modem
- AC 100–240 V supply; power consumption below 100 W
- Wall mounted; suitable for indoor and outdoor use

Technical Specifications

Specification	Uplink	Downlink
Frequency Range	380–380.5 MHz	390–390.5 MHz
Typical Gain	45 ± 2 dB	45 ± 2 dB
RF Output Power	–	33 dBm
Optical Output Power	3 ± 2 dBm	–
ALC Range	–	>30 dB
Gain Adjustment Range	0–31 dB @ 1 dB step	0–31 dB @ 1 dB step
Gain Flatness	<3 dB	<3 dB
IMD	–	>45 dBc
System Delay	< 1 μ s	< 1 μ s
Spurious Emission	Complies with 3GPP	Complies with 3GPP
Optical Wavelength	1310 nm	–
Optical Receiver Sensitivity	–	–15 dBm @ 1550 nm
Optical Connector	1 $\times$ LC/UPC	
RF Connector	1 $\times$ N(f) for Tx/Rx combined	
Power Supply	100–240 VAC, IEC 62368-1	
Power Consumption	<100 W	
Local Control	RJ45	
Remote Control (Optional)	LTE modem or RJ45	
Working Temperature	–20 to +55 °C	
Relative Humidity	5% to 95%	
Dimensions	385 $\times$ 307 $\times$ 204 mm	
Approx. Weight	15 kg	
Installation	Wall mounted	
Application	Indoor & outdoor	