



PRODUCT DATASHEET

Master Optical Unit (MOU)

TETRA Band

Model No: FR-MOU400



380–380.5 MHz
Uplink frequency

390–390.5 MHz
Downlink frequency

8 LC
Optical ports (LC/UPC)

<1 μ s
System delay

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A rack-mounted Master Optical Unit (MOU) for the **380–380.5 MHz** uplink and **390–390.5 MHz** downlink bands. Direct coupling through a single combined Tx/Rx N-type port, with **8 LC/UPC** optical ports, RJ45 local control, and indoor installation.



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Key Features

- Uplink 380–380.5 MHz and downlink 390–390.5 MHz
- 8 × LC/UPC optical ports
- Gain adjustable 0–31 dB in 1 dB steps; ALC range greater than 30 dB
- Low system delay of less than 1 μs; system noise figure below 8 dB
- Local control via RJ45; optional remote via LTE modem
- Low power consumption of less than 30 W; AC 100–240 V supply
- Rack mounted; suitable for indoor use

Technical Specifications

Specification	Uplink	Downlink
Frequency Range	380–380.5 MHz	390–390.5 MHz
Typical Gain	0 ± 2 dB	0 ± 2 dB
RF Output Power (total)	-10 ± 2 dBm	–
Optical Output Power / port	–	-6 ± 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
System Noise Figure	<8 dB	–
System Delay	< 1 μ s	< 1 μ s
Spurious Emission	Complies with 3GPP	Complies with 3GPP
Optical Wavelength	–	1550 nm
Optical Receiver Sensitivity	-15 dBm @ 1310 nm	–
Optical Connector	8 $\times$ LC/UPC	
RF Connector	1 $\times$ N(f) for Tx/Rx combined	
Power Supply	AC 100–240 V, IEC 62368-1	
Power Consumption	<30 W	
Local Control	RJ45	
Remote Control (Optional)	LTE modem or RJ45	
Working Temperature	-20 to $+55$ $^{\circ}$ C	
Relative Humidity	5% to 95%	
Dimensions	480 $\times$ 350 $\times$ 88 mm	
Approx. Weight	10 kg	
Installation	Rack mounted	
Application	Indoor	