

Preliminary

**PRODUCT
SPECIFICATION**



ION-U OTRx LP

Low Power Optical Transceiver

The ION-U (Unified) series is the convergence of ION-M & ION-B platforms with integrated base station interface equipment & network management system which enables enhanced flexibility & scalability in all sectors.

CommScope's OTRx LP is a component within the ION-U Distributed Antenna System (DAS).

As part of the ION-U master unit elements, the Low Power Optical Transceiver is a wideband card

responsible of RF to optical conversion. It is provided with 4 optical links to feed up to 4 low power remote units.

LEDs are provided for each RF and optical port to assist during installation phase

ION-U OTRx LP – Product Specifications

Electrical

Operating Frequency, MHz	380 to 2700
Connectors	2x QMA female 2x SMP female (dSMR interface)
Absolut maximum RF power rating, dBm	-10
Impedance, Ohm	50
Power supply, Vdc	12 (proprietary backplane)
Power consumption, Watts	23

Optical Interface

Wavelength, nm	1290 to 1330
Source typical output power, dBm	3 (Laser, Class 1)
Optical receiver	PIN photodiode
Maximum allowed optical input power, dBm	8
Allowed optical loss under AGC operation, dB	5

Allowed back reflection, dB	<-36
Fiber optic type, μm	9.5/125 single mode
Optical ports	8x LC-APC (4 links with separated DL and UL fibers)

Mechanical

Height, width, depth mm (in)	4U x 7HP x 370 (4U x 7HP x 14.6)
Weight, kg (lb)	0.8 (1.8)

Environmental

Operating temperature range, °C	
Operating module	+5 to +50
Storage	-20 to +70

All figures are typical values unless otherwise stated.



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Bulletin PA-106130.2-EN.GB (02/13)