

The integrated Optical Distribution Unit (iODU) receives downlink RF signals from the integrated BTS Interface Unit (iBIU), converts the RF signals to optical, then sends the signal to the remote optic units (ROUs) or to the Optic Expansion Unit (OEU or iOEU) via fiber optic cabling. This process is reversed for the uplink path.

The iODU is typically co-located with the BTS Interface Unit (iBIU) from which it receives power and RF communication via two coax cables and a power cable.

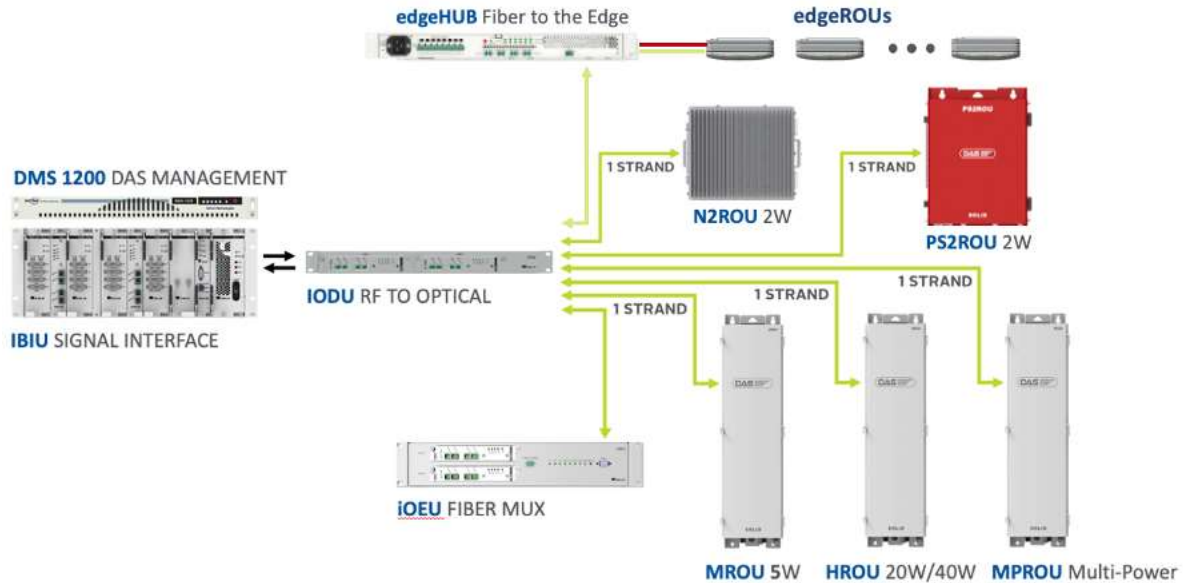
The iODU is equipped with a fan unit for improved heat dissipation. This design feature allows the operator to stack multiple iODUs to conserve rack space.

Features

- RF to optical / optical to RF conversion
- Modular design – up to 8 optical ports
- 5 or 10 dBo link budget to ROU or OEU
- Single strand per ROU or OEU
- Single mode, SC-APC connection
- Compact form factor (1RU) – 19" rack mount

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Integrated Optical Distribution Unit (iODU)



Specifications	Description
RF Connectors	2 QMA type, female
Fiber Connector	SC/APC
Dimensions WxHxD	19 x 1.75 (1RU) x 12.6 inches (482.6 x 43.6 x 320 mm). Fits 19" Rack
Operating Temp	14 to 122°F (-10 to +50°C)
Weight	11 lbs. (5 kg) fully loaded with two optic modules
Power consumption	33W fully loaded with two optic modules
Optical Wavelength	TX: 1310nm, 1330nm* (*Only applies to iOM_4000 modules which use both 1310 and 1330.) RX: 1550nm
Optical Module Transmit Power	4-port module: 3 dBm ± 1 dB. 1-port module: 10 dBm ± 1 dB.
Optical Module Link Budget	4-port module: 5 dBo. 1-port module: 10 dBo. Recommended max. fiber length is 10km. Maximum back reflection (return loss) is -55dB
Compliance	USA: UL Listed & FCC. Canada: CUL Listed, Emissions (N. America) FCC Part15 Subpart B, Class A, FDA/CDRH Rules for Class 1 LASER (Canada) ICES-003

Parts List	Description
iODU	Optical Distribution Unit Chassis for iOM w/ Fans
iOM_1_2700	1 Port optical module, use with iBIU, iODU, iOEU, supports 136~2700MHz
iOM_4_2700	4 Port optical module, use with iBIU, iODU, iOEU, supports 136~2700MHz
iOM_1_4000	1 Port optical module, use with iBIU, iODU, iOEU, supports 136~4000MHz
iOM_4_4000	4 Port optical module, use with iBIU, iODU, iOEU, supports 136~4000MHz
iOM_B	Blank optical module, use with iBIU, iODU, iOEU



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