

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.

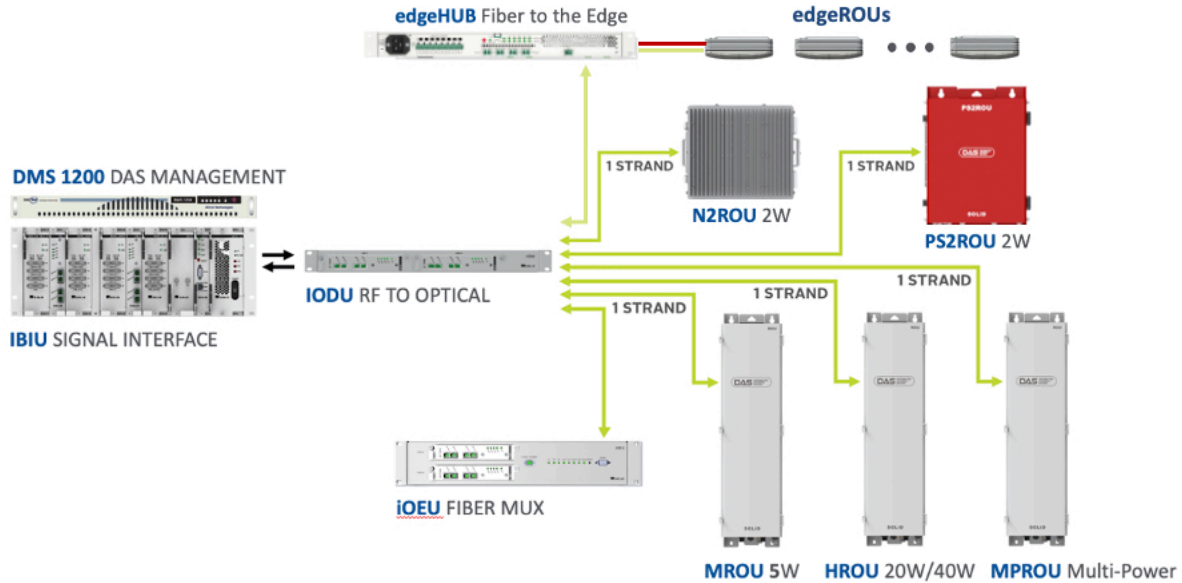
The iODU is equipped with a fan unit for improved heat dissipation. This design feature allows the operator to stack multiple iODUs to conserve rack space.

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 | Emissions (N. America) FCC Part15 Subpart B, Class A, FDA/CDRH Rules for Class 1 LASER |

| 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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