



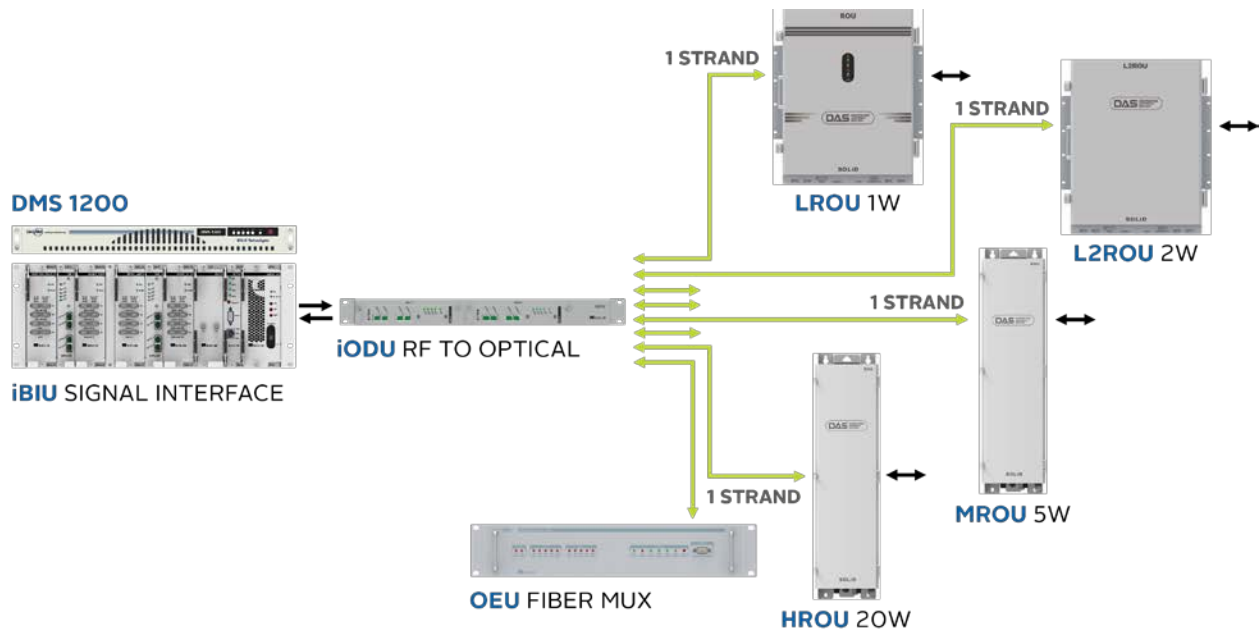
The integrated Optical Distribution Unit (iODU) receives downlink RF signals from the integrated BTS Interface Unit (iBIU), converts the RF signals to optical, then sends the signal to the remote optic units (ROUs) or to the Optic Expansion Unit (OEU) via fiber optic cabling. This process is reversed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

The iODU is typically co-located with the BTS Interface Unit 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
- Single strand per ROU or OEU
- Modular design – up to 8 optical ports
- Single mode, SC-APC connection
- 5 or 10 dBo link budget to ROU or OEU
- Compact form factor (1RU) – 19" rack mount



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 2 Donor Optical Units
Power consumption	32W fully loaded with 2 Donor Optical Units
Optical Wavelength	TX: 1310nm. 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

Part Numbers – See the Ordering Guide for Complete Configuration Details	
Optical Distribution Unit Subrack	iODU
1-Port Donor Optical Unit (OM1)	iOM_1
4-Port Donor Optical Unit (OM4)	iOM_4
Blank module for the iODU	iOM_B



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