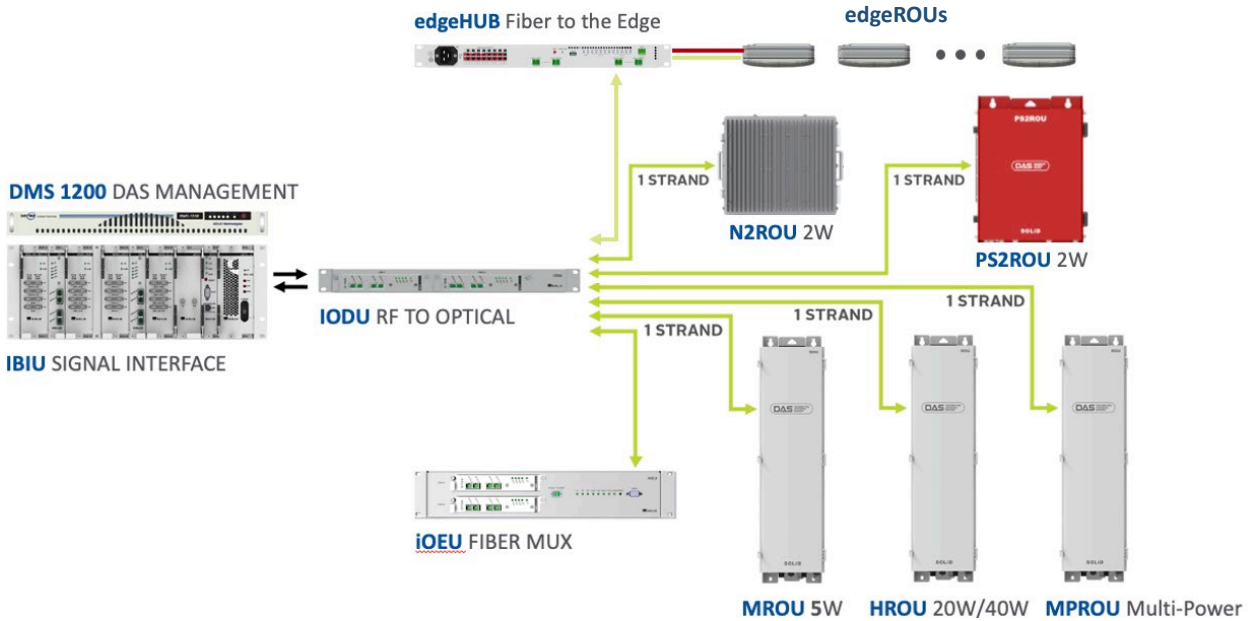


The integrated Optical Expansion Unit (iOEU) receives downlink optical signals from the optic modules located at the DAS head end, then sends the signals to the remote optic units (ROUs) via fiber optic cabling. This process is reversed for the uplink path. The iOEU is usually located apart from the BTS Interface Unit allowing the operator to extend the coverage area of the DAS. The iOEU is equipped with a fan unit for improved heat dissipation. This design feature allows the operator to stack multiple iOEU's to conserve rack space.

**Features**

- Optical to optical
- Modular design – up to 8 optical ports
- 5 or 10 dBo link budget to ROU
- Single strand per ROU
- Single mode, SC-APC connection
- Compact form factor (2U) – 19” rack mount



| Specification                 | Description  |
|-------------------------------|--|
| Fiber connector               | SC/APC. Maximum eight ports (with two 4-port optic modules)  |
| Dimensions WxHxD              | 19"W x 3.5"H (2U) x 17.7"D (482.6 x 88.1 (2U) x 450mm). Fits 19" rack  |
| Operating Temp                | 14 to 122°F (-10 to +50°C)   |
| Weight                        | 20.5 lbs (8.14 Kg) fully loaded with two optic modules   |
| Input Power (AC or DC)        | Input range: AC: 100 to 240V; DC: -42 to -56V  |
| Power consumption             | 50W fully loaded with two optic modules  |
| Optical Wavelength            | TX: 1310nm, 1330nm*<br>(*Only applies to iOM_4000 modules which use both 1310 and 1330.)<br>RX: 1550nm                   |
| Optical Module Transmit Power | 4-Port optic unit: 3 dBm ± 1 dB to ROU<br>1-Port optic unit: 10 dBm ± 1 dB to ROU  |
| Optical Link Budget           | iODU to iOEU or iOEU to ROU or iODU to ROU or iOEU to ROU:<br>10 dBo for 1-port Optic Unit / 5 dBo for 4-port Optic Unit |
| Compliance                    | Emissions (N. America) FCC Part15 Subpart B, Class A, FDA/CDRH Rules for Class 1 LASER                                   |

| Part Numbers  | Integrated Optical Expansion Unit  |
|---------------|--|
| iOEU_AC       | Optical Expansion Unit Chassis for iOM, AC                                   |
| iOEU_DC       | Optical Expansion Unit Chassis for iOM, DC                                   |
| iOM_1_2700    | 1 Port optical module, use with iBIU, iODU, iOEU, supports 2500TDD Full Band |
| iOM_4_2700    | 4 Port optical module, use with iBIU, iODU, iOEU, supports 2500TDD Full Band |
| 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                              |
| OEU_Upgrade_6 | OEU Rel. 5 to Rel. 6 Upgrade   |



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