

R-ONU | RFoG ONU (R-ONU) CPE



RFoG-compliant Optical Network Units

- RFoG ONUs for SDU and MDU installations, including high-gain (48 dBmV) MDU applications
- Standards-compliant, "OBI-free" models support DOCSIS 3.0 upstream operation
- Managed and unmanaged OBI-free options support a variety of worldwide implementation needs
- Managed models support 16 ONUs per receiver
- 1 Gbps/10 Gbps PON pass-through versions support fast-growing RF+PON applications
- 5-42, 5-65, or 5-85 MHz return options on 1610 nm wavelength
- 51, 85, or 102 to 1218 MHz (1.2 GHz) forward bandwidth options on 1550 nm wavelengths
- Rugged cast housings meet tough environmental conditions
- Indoor and outdoor mounting options

ARRIS provides leading-edge, RFoG-compliant Optical Network Units (R-ONUs) that enable cable operators to easily deploy advanced fiber-to-the-home and fiber-to-the-building topologies which provide complete subscriber support while seamlessly integrating with existing headend and back-office technology. ARRIS R-ONUs support any RFoG solution that uses standard industry wavelengths to and from the customer premises. A large variety of model options are available to support worldwide deployments, features, and applications including, Single Dwelling Unit (SDU), Multi-Dwelling Unit (MDU), and High-Output MDU installations. All models with 1610 nm returns support the optical overlay of both 1G and 10G PON signals without impacting existing RFoG services. PON pass-through versions are available with either 1G, or 10G and 1G connectivity, enabling operators to deploy advanced data services as required.

ARRIS's innovative "OBI-free" R-ONU eliminates Optical Beat Interference (OBI) that has been an issue in traditional RFoG deployments. OBI-free R-ONU technology supports multiple, simultaneous upstream RF channel transmissions, enabling multiple MAC domains and full DOCSIS[®] 3.0 channel usage to efficiently coexist, while also fully using available upstream bandwidth for RF returns.

One version of OBI-free technology is currently supported: a manual upstream selection model that supports up to 16 R-ONUs transmitting into a single receiver input. Lower cost unmanaged (non-OBI-free) R-ONUs are also available.

ARRIS R-ONUs support all standard return passbands with forward bandwidths up to 1.2 GHz. 1310 nm returns are an option on non-OBI-free models. All units are constructed in rugged cast metal housings and meet wide temperature ranges for both indoor and outdoor installations. Protective outdoor enclosures are purchased separately.

Product Classification

Regional Availability	Asia Australia/New Zealand EMEA Latin America North America
Product Type	RFoG optical network unit (R-ONU)