Opti Max

Opti Max3100 1GHz 2 x 2 Segmentable Node

- 1 GHz technology
- Full 2 x 2 forward and return segmentation capability
- Various RF split options depending on configuration
- Supports CWDM, DWDM, and CORWave™ multi wavelength technologies
- Optional digital return transceiver with pluggable SFPs
- Optional 1310 nm, 1550 nm, and CWDM analog return transmitters
- Lid upgrades for legacy nodes and amplifier to node conversions
- Power only port option for lid upgrade eliminates the need for a separate power inserter
- Accepts legacy PADs and EQs
- Value Max transponder with HMS/AM protocol support
- Direct AC powering option

To help cable operators who look for new subscriber revenue and higher average revenue per subscriber without major CAPEX, ARRIS offers a suite of products and solutions that help them seamlessly and easily stay in line with future goals, add new services and strongly position against the competition.

The ARRIS Opti Max3100 1 GHz 2 x 2 segmentable node is part of the ARRIS Opti Max node platform for optical to RF (RF to optical in the upstream) signal conversion. 1GHz bandwidth will enable cable operators to increase forward capacity for additional service offerings such as HDTV, Video on Demand (VOD), VoIP and internet. 2 x 2 segmentation in both the forward and return path provides the ability to reduce a service group size by 50% for increased capacity and more targeted services when needed, without having to run new trunk fiber or install additional nodes. Thoughtfully designed drop in lid upgrades* enable service group segmentation and DOCSIS® 3.0 capability by converting amplifiers or older nodes to 1 GHz nodes, and reduce the cost of segmentation by up to 30%. The Opti Max3100 supports the ARRIS CWDM, DWDM and CORWave™ multi wavelength technologies for maximization of the available optical spectrum. Accepts legacy PADs and EQs.

*Lid upgrades for Diamond Net node, Opti Max 3000 node, Flex Max 601 amplifier, Diamond Line I,II, III amplifiers, GNA/TNA series amplifiers

Product Flyer

Options

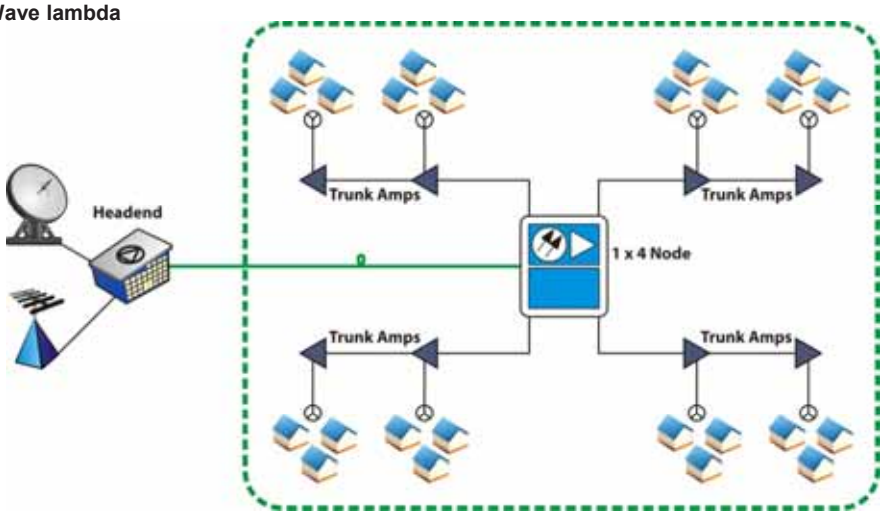
- Digital return transceiver designed to combine two RF inputs in the node, producing a single digital signal that can be transmitted using CWDM, DWDM, 1310 or 1550 nm SFP optical devices over distances up to 100++ km back to the optical headend. The digital return transceiver also supports service group aggregation capability, where a master node collects signals from up to 16 nodes for transport back to the optical headend. Service group aggregation provides an alternative to point to point architectures to support smaller service groups in fiber deep designs.
- CWDM, 1310 and 1550 nm analog return transmitter options
- Opti Max3100 lid upgrades for 1 GHz capacity, DOCSIS 3.0 capability and reduced segmentation costs by up to 30%. Optional power only port eliminates the need for a separate power inserter, also saving time and money.
- Value Max transponder element management system supporting HMS/AM protocols
- Supports 1 x4 redundancy (factory preconfigured)

Applications

1 x 4 Configuration

Increase forward capacity with an Opti Max3100 in a 1 x 4 configuration for 1 GHz bandwidth and 'pay as you grow' capability

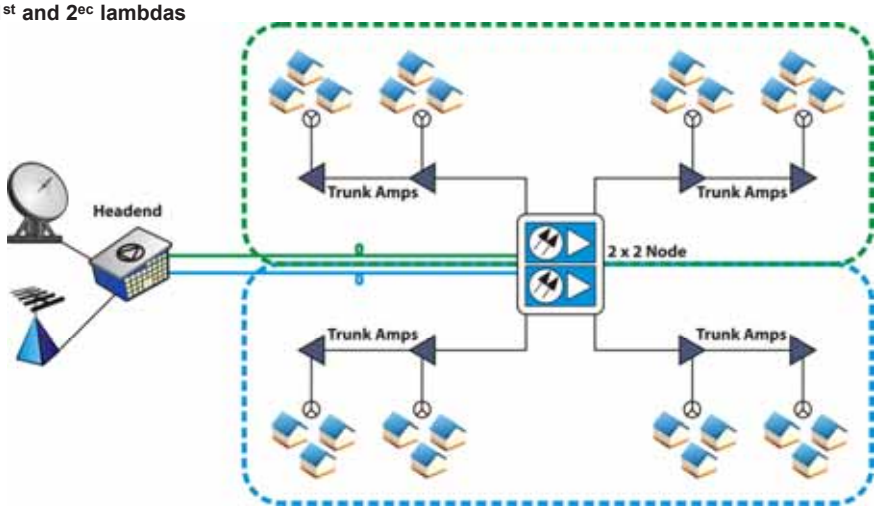
Single service group with 1st CORWave lambda



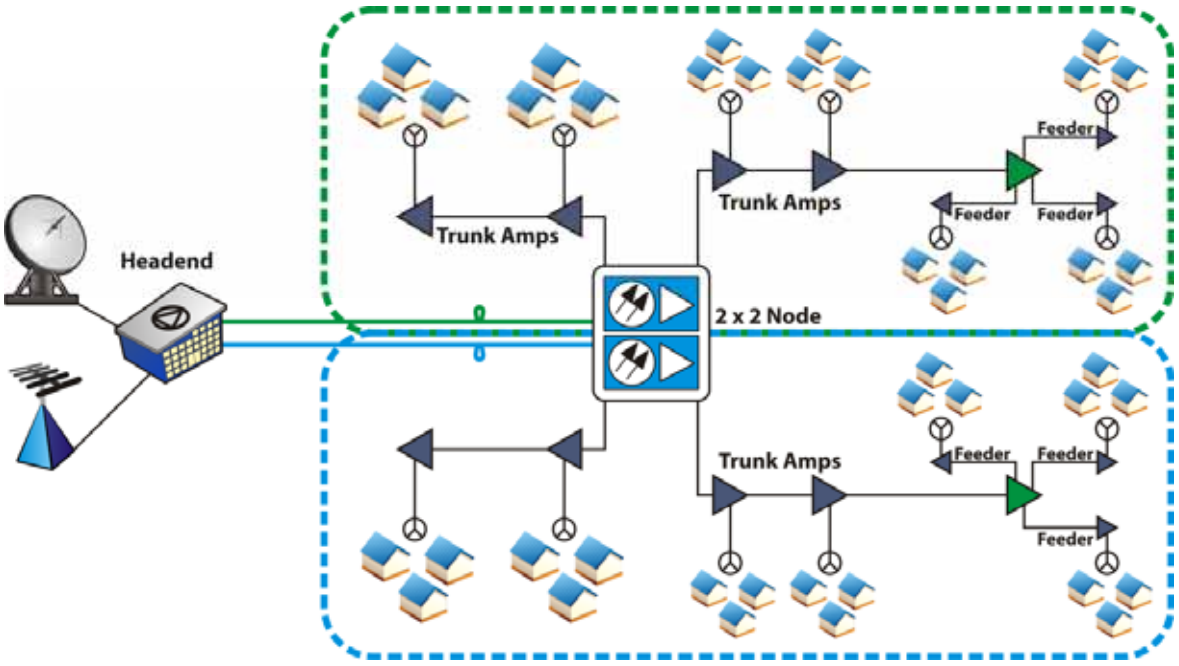
2x 2 Configuration

Reduce service group size by 50% and add more targeted services such as HD channel line ups and VOD with Opti Max3100 field upgrades and CORWave multi wavelength transmitters. Requires no new trunk fiber or additional node installations.

Two service groups with CORWave 1st and 2ec lambdas



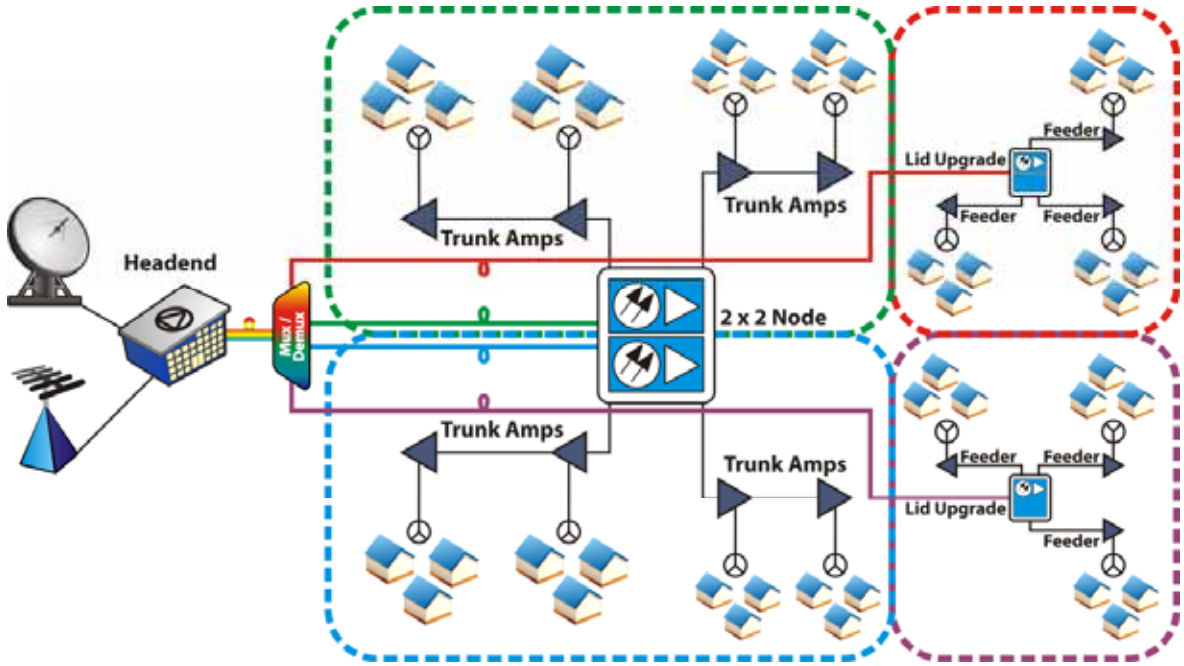
HFC Architecture with existing Amplifier Cascades



Thoughtfully designed drop in lid upgrades* enable service group segmentation and DOCSIS 3.0 capability by converting amplifiers or older nodes to 1 GHz nodes, and reduce the cost of segmentation by up to 30%. CORWave multi wavelength transmitters allow new services to be added quickly and easily without pulling new fiber.

*Lid upgrades for Diamond Net node, Opti Max 3000 node, Flex Max 601 amplifier, Diamond Line I,II, III amplifiers, GNA/TNA series amplifiers

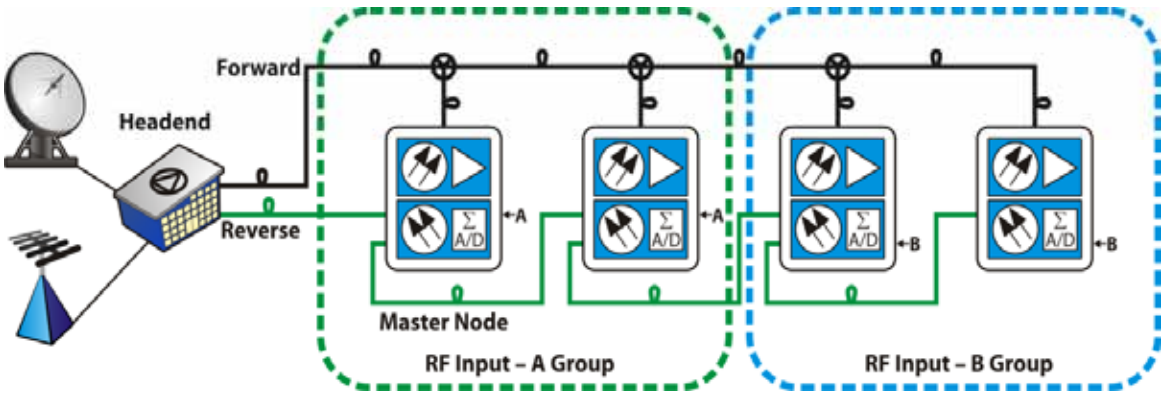
HFC Architecture with Amplifier to Node Upgrades and CORWave multiple lambdas



Opti Max 3100 1 GHz 2 x 2 Segmentable Node

Service group aggregation utilizing the Opti Max3100 with the digital transceiver option is a cost effective means to selectively supply service groups with triple play services while conserving fiber and/or optical bandwidth and headend components for other applications. A master node can collect signals from up to 16 nodes for transport back to the optical headend. The architecture can be migrated to a full point to point as customer demands increase.

Service Aggregation with Opti Max3100 Digital Return



www.arrisi.com

Find more information about the Opti Max 3100 1 GHz 2 x 2 Segmentable Node:
Product Opti Max 3100 1 GHz 2 x 2 Segmentable Node Technical Specifications (Publication Code: OM3100_TS.pdf)

Customer Care

Contact Customer Care for product information and sales
United States: 866-36-ARRIS
International: +1-678-473-5656

ARRIS

www.arrisi.com