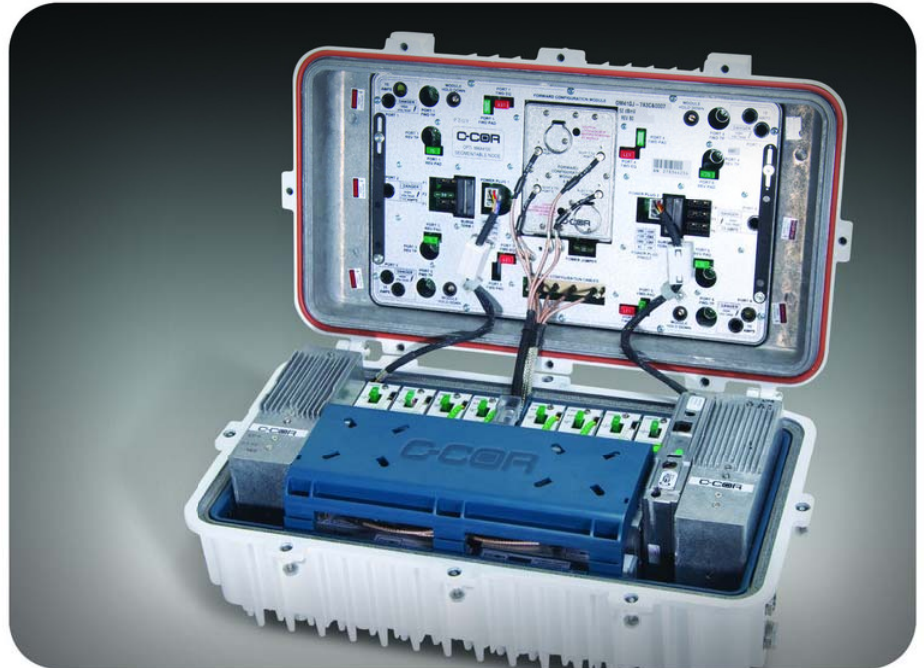




Opti Max™ 41xx Series Fully Segmentable Node

Opti Max 4100 1GHz 4 x 4 Segmentable Node



Generate New Revenue

- Up to full 4 x 4 downstream and upstream segmentation capability
- Support for 42/54 MHz, 55/70 MHz, 65/85 MHz, and 85/105 MHz bandwidth splits
- 1 GHz technology

Reduced OPEX with Service Aggregation and Multi Wavelength Support

- Optional digital upstream transceiver with Small Form Pluggable (SFP)s to support 18 CWDM and 49 DWDM wavelengths for service group aggregation
- Node specific optical passive design for optical multi wavelength support

Protect Investment

- Supports 1310/1550nm DFB, CWDM, DWDM, and CORWave™ multi wavelength technologies
- Optional 1310 nm and 1550 nm DFB and 18 CWDM analog upstream transmitters

Additional Features

- Direct AC powering
- Accepts legacy PAD's and EQs

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.

Generate New Revenue Through Increased Capacity

The ARRIS Opti Max OM4100 1 GHz 4 x 4 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 downstream capacity for additional service offerings such as HDTV, Video on Demand (VOD), VoIP and high speed data / internet.

4 x 4 segmentation in both the downstream and upstream path provides the ability to reduce service group size by 75% for increased capacity and more targeted services when needed, without having to run new trunk fiber or install additional nodes.

Reduce OPEX With Service Aggregation and Multi Wavelength Support

The optional digital upstream transceiver supports service group aggregation - where signals from a group of nodes are collected at a master node for transmission back to the headend - providing an alternative to point-to-point architectures for support of fiber deep designs. The OM4100 supports the ARRIS Coarse Wavelength Division Multiplexing (CWDM), Dense Wavelength Division Multiplexing (DWDM) and CORWave™ multi wavelength technologies for maximization of the available optical spectrum in fiber scarce architectures.

Protect Network Investment With Scalable Options

The OM4100 modular design allows a high level of scalability, which enables operators to deploy minimal configurations today and expand as subscriber demands increase. Expansion options include migration from a 1x4 node to full downstream and upstream 2x2 and 4x4 segmentation. Scalability is achieved simply by adding in additional upstream transmitters and downstream receivers along with simple plug in segmentation modules.

Additional capacity in the upstream for increased DOCSIS® channel bonding capability is supported by replacement of the RF module to support various bandsplits, including 85/105 MHz.

Options

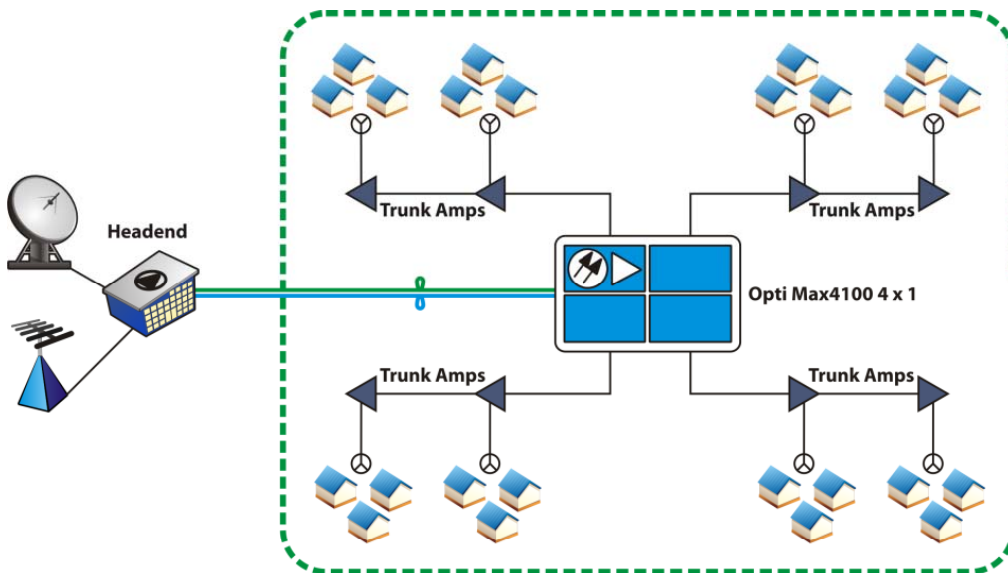
- Supports 1x4 and 2x2 analog redundancy options
- Supports 1x4, 2x2, and 4x4 digital redundancy options
- Redundant powering option
- EMS support, including
 - DOCSIS transponder
 - Value Max transponder with HMS or AM protocols

Applications

1 x 4 Configuration

Increase downstream capacity with an OM4100 in a 1 x 4 configuration for 1 GHz bandwidth and 'pay as you grow' capability

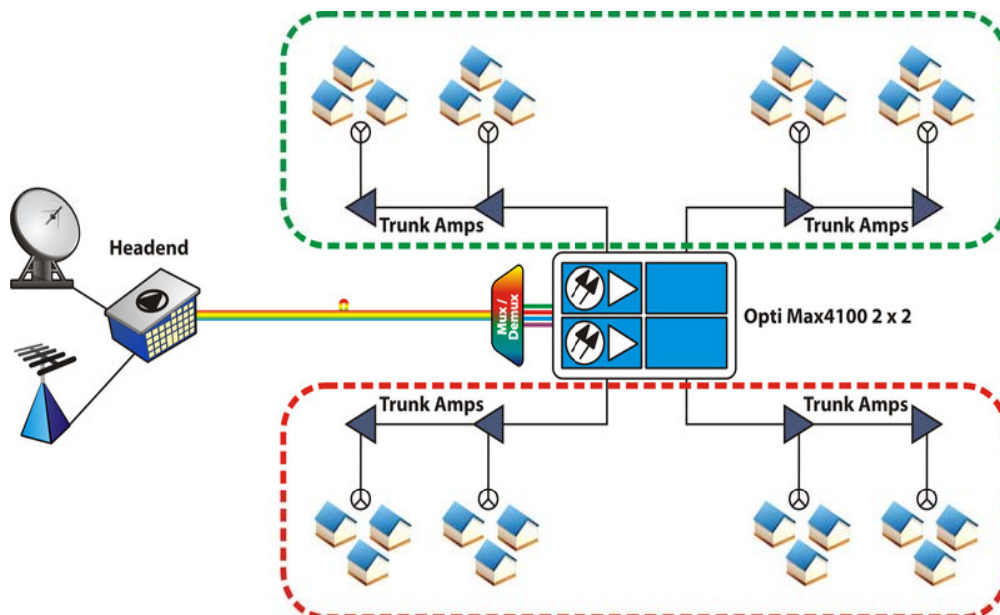
Single service group with 1st CORWave lambda



2x 2 Configuration

Reduce service group size by 50% and add more targeted services such as HD channel line ups and VOD with OM4100 field upgrades and CORWave multi wavelength transmitters. Requires no new trunk fiber or additional node installations.

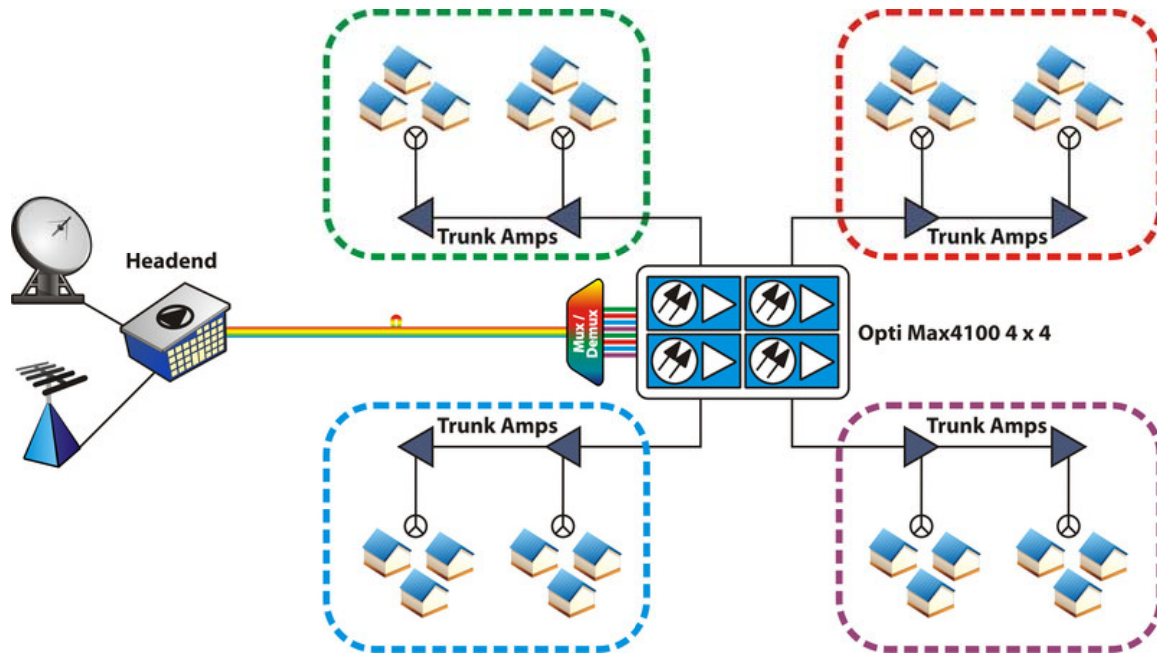
Two service groups with CORWave 1st and 2nd lambdas



4 x 4 Configuration

Reduce service group size by 75% and add more targeted services such as HD channel line ups and VOD with OM4100 field upgrades and CORWave multi wavelength transmitters. Requires no new trunk fiber or additional node installations.

Four service groups with CORWave 1st , 2nd , 3rd , and 4th , lambdas



ARRIS Digital Return

Reduces OPEX

- Does not require a truck roll required for segmenting from 4 x 1 to 2 x 2 to 4 x 4 (controller setting change only)

Minimizes Complexity

- No external combining network required in the headend for upstream segmentation – done through the return receiver
- Full complement of CWDM and DWDM pluggable SFPs
 - Reduces inventory SKUs
 - Easier truck stocking
 - No converter module required to convert to DWDM

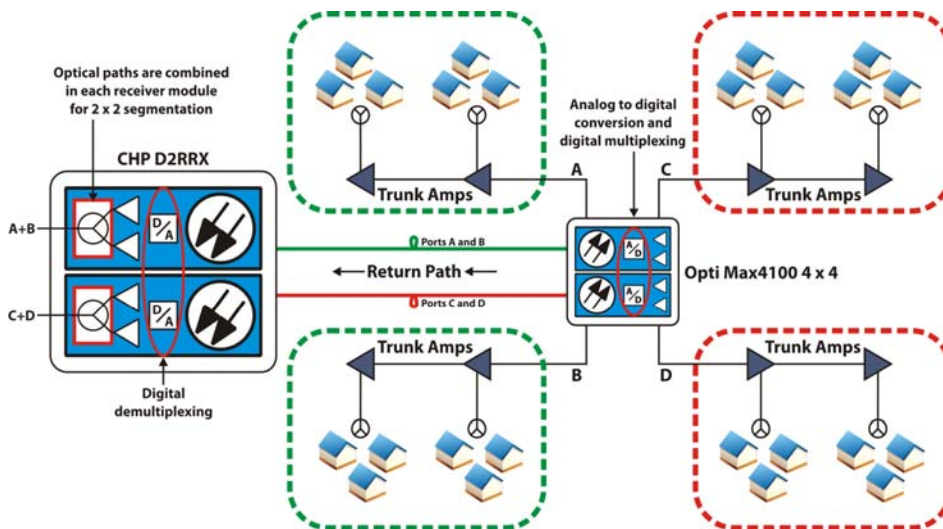
Preserves Investment

- Supports upstream node segmentation and allows service group aggregation for node +0/+1 architectures
- Backwards compatible with selected optical nodes with analog return

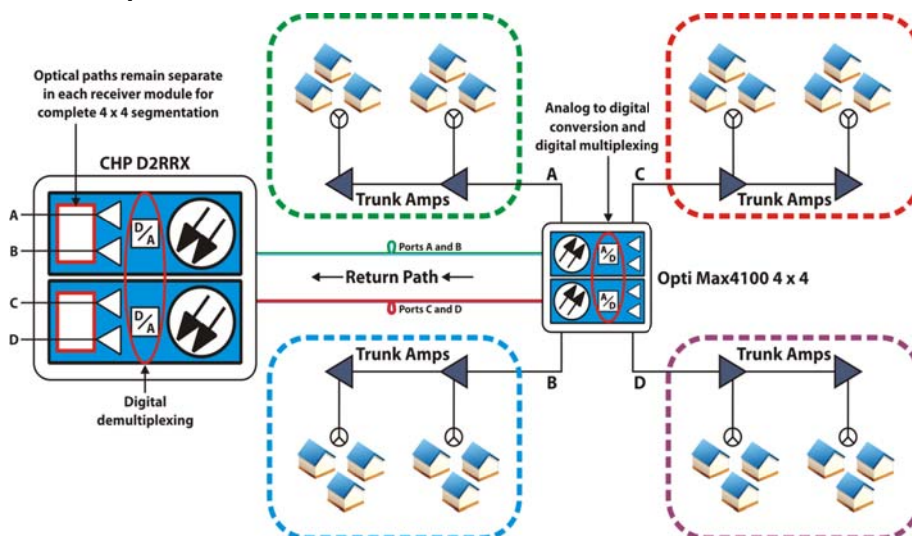
Better Performance

- Consistent performance regardless of link budget, especially for long links
- Supports future migration to more complex digital encoding schemes
- Environmentally hardened SFPs for better reliability

OM4100 'truckless' segmentation from 2 x 2....



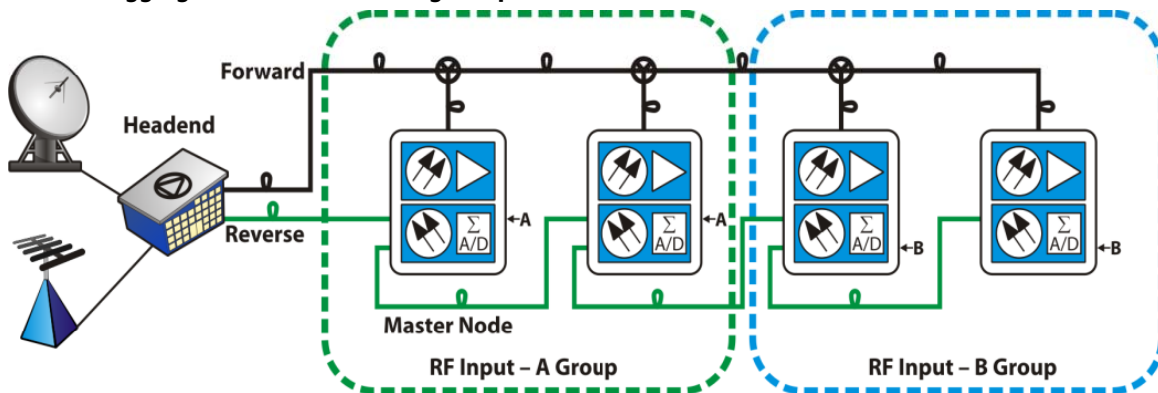
...to complete 4 x 4



Opti Max™ OM4100 Product Flyer

Service group aggregation utilizing the OM4100 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 OM4100 Digital upstream



www.arrisi.com

Find more information about the Opti Max 4100 1 GHz 4x 4 Segmentable Node:

- Opti Max 4100 1 GHz 2 x 2 Segmentable Node Technical Specifications

Customer Care

Contact Customer Care for product information and sales

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