# Opti Max™ 31xx Series Multi-Functional Nodes

## OM3101 - 1 GHz Multiple Output Digitally Segmentable Node


### Generate New Revenue

- Multiple high RF outputs for last mile and fiber deep applications
- Support for 42/54 MHz , 65/85 MHz , and 85/105 MHz bandwidth splits
- 1 GHz technology

### Scalable Options

- Upgrade kit for Legacy Philips and C-COR® nodes to expand bandwidth and support CWDM multi-wavelength solutions
- Convert legacy Philips and C-COR bridger amplifiers to a node

### Protect Investment

- Philips 9-NH 4-port housing base
- Support for 1310/1550 nm DFB, CWDM and CORWave™ multi-wavelength downstream technologies
- Modular options for analog upstream transmitter or 2:1 digital upstream transmitter

### Additional Features

- Remote or local AC powering
- Factory included surge protection
- Accepts legacy PAD's and EQs
- Dedicated fiber management tray

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 Cost-Effectively**

The ARRIS OM3101 1 GHz high output node is part of the ARRIS Opti Max node platform for optical to RF (RF to optical in the upstream) signal conversion.

For cable operators looking to supply high bandwidth capacity and multi-wavelength capability without segmentation to small service groups, the OM3101 with multiple high output capability is a cost effective solution for plant extensions, small greenfields, and areas with a small subscriber count.

1 GHz 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. Return bandwidth options beyond 42 MHz are available for additional revenue generating service offerings.

**Protect Investment in the Network With Scalable Options**

The OM3101 with the 9-NH 4-port housing base provides a backwards compatible solution supporting a wide installed base of Phillips, C-COR, and ARRIS bridger and node housings. Kits are available to upgrade existing OM3000s, NQ2, Philips DiamondNet and Diamond Marquis to 1 GHz bandwidth. Legacy amplifier cascades can be reduced for fiber deeper applications by converting Philips TNA/GNA, Diamond Line I, II, III and Flex Max 601/601e bridgers to nodes. The kit allows operators to expand capacity at an estimated 30% labor savings over complete node replacement solutions.

The OM3101 optional CWDM transmitters support ARRIS multi-wavelength solutions for maximization of the available optical spectrum in fiber scarce architectures.

**Enhanced Fiber Management**

A large fiber management tray located in the OM3101 housing lid has two tiers to manage multiple fiber counts. The lower level tier manages the excess fiber entry service cable and pigtails. The upper level tier manages the active optical bulkheads and rugged optical passive devices. This is a clean and flexible fiber management solution in a highly compact design.

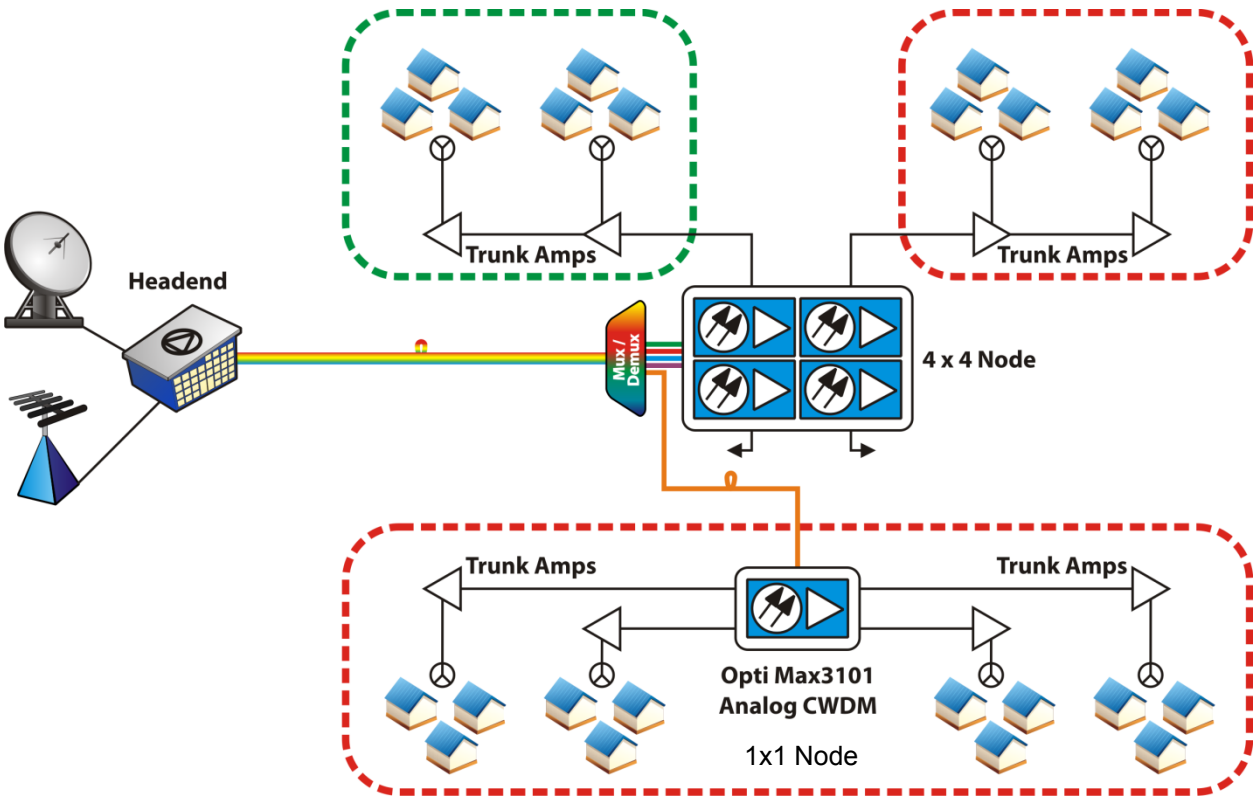
# Product Flyer

**Options**

- High RF output capacity
- Optical AGC
- Transmitter compatible with OM3100 and OM3101 leveraging existing inventory and SKU's
- 1310 nm and 1550 nm DFB upstream transmitter wavelengths
- 8 CWDM analog upstream transmitter: 1471 to1611 nm
- 2:1 DWDM/CWDM SFP digital upstream transmitter
- 42/54, 65/85, 85/105 MHz bandsplits
- Plug-in ingress filter
- 45-90V remote or 110/220V local AC powering

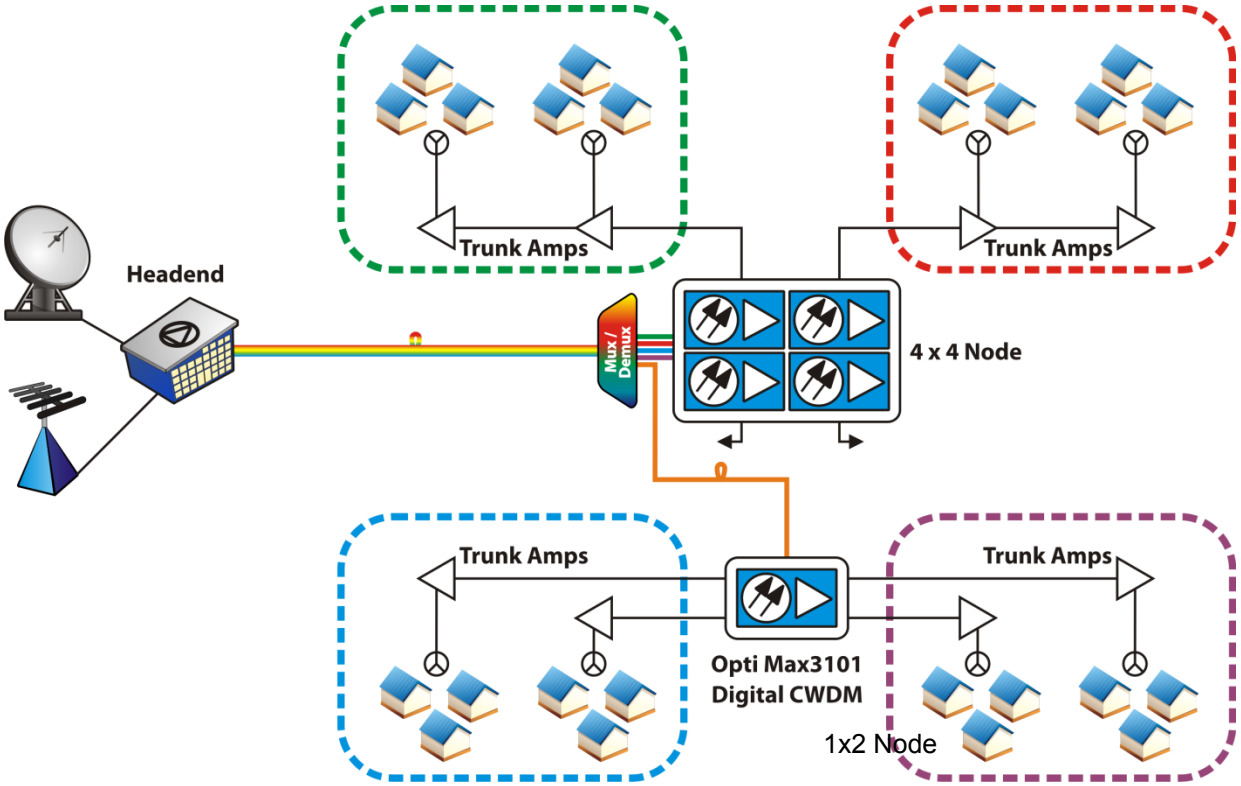
## Applications

### Start with: Fiber Deep plant extension using OM3101 with analog upstream (no segmentation)

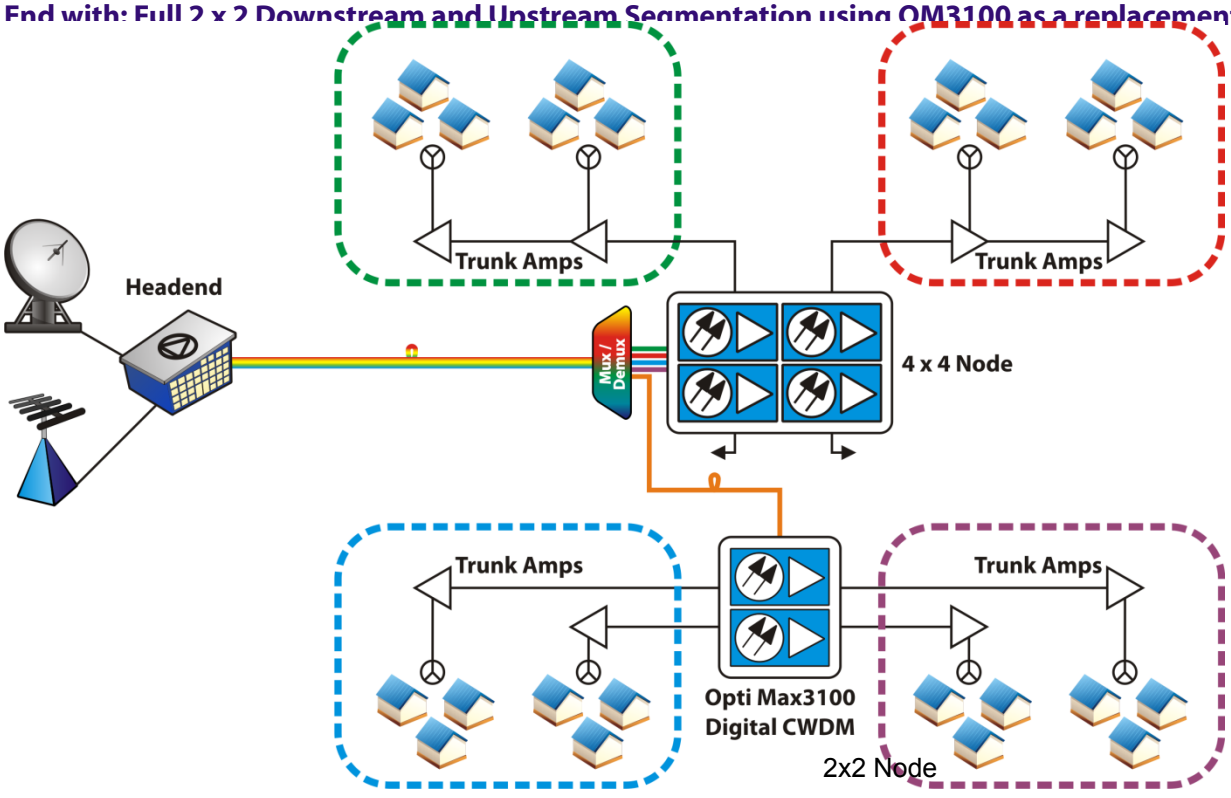


## Applications (cont)

**Continue with: Fiber Deep plant extension using OM3101 with digital upstream transmitter and upstream segmentation**

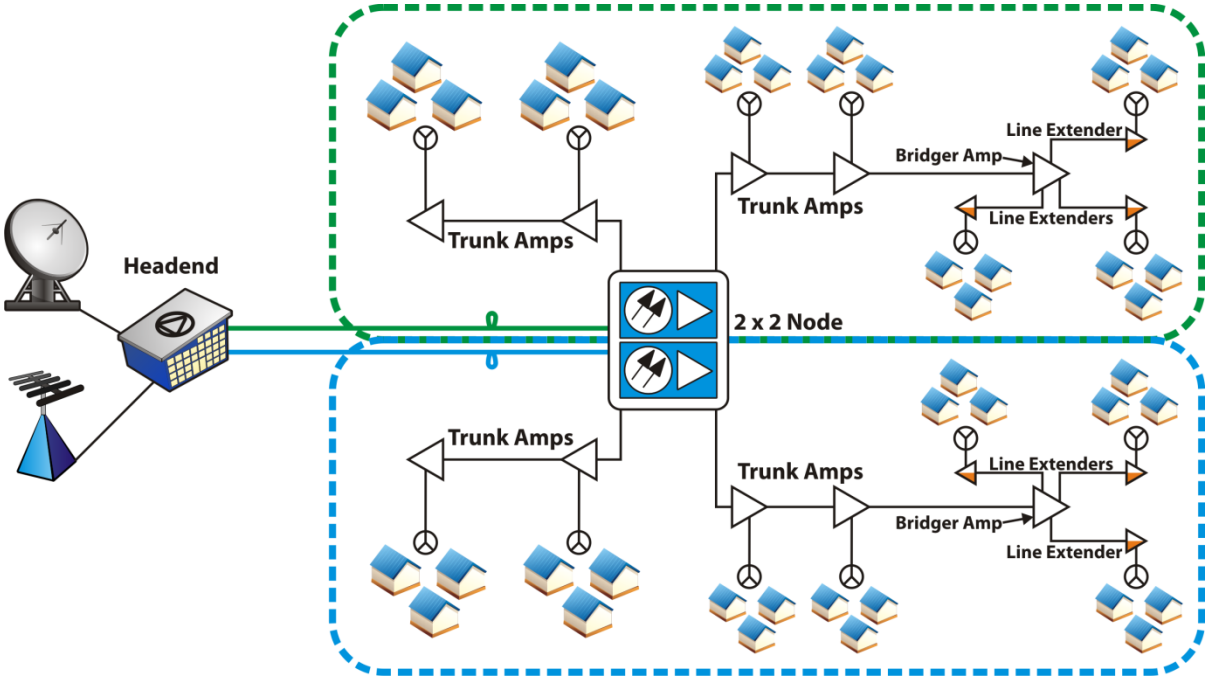



**End with: Full 2 x 2 Downstream and Upstream Segmentation using OM3100 as a replacement**

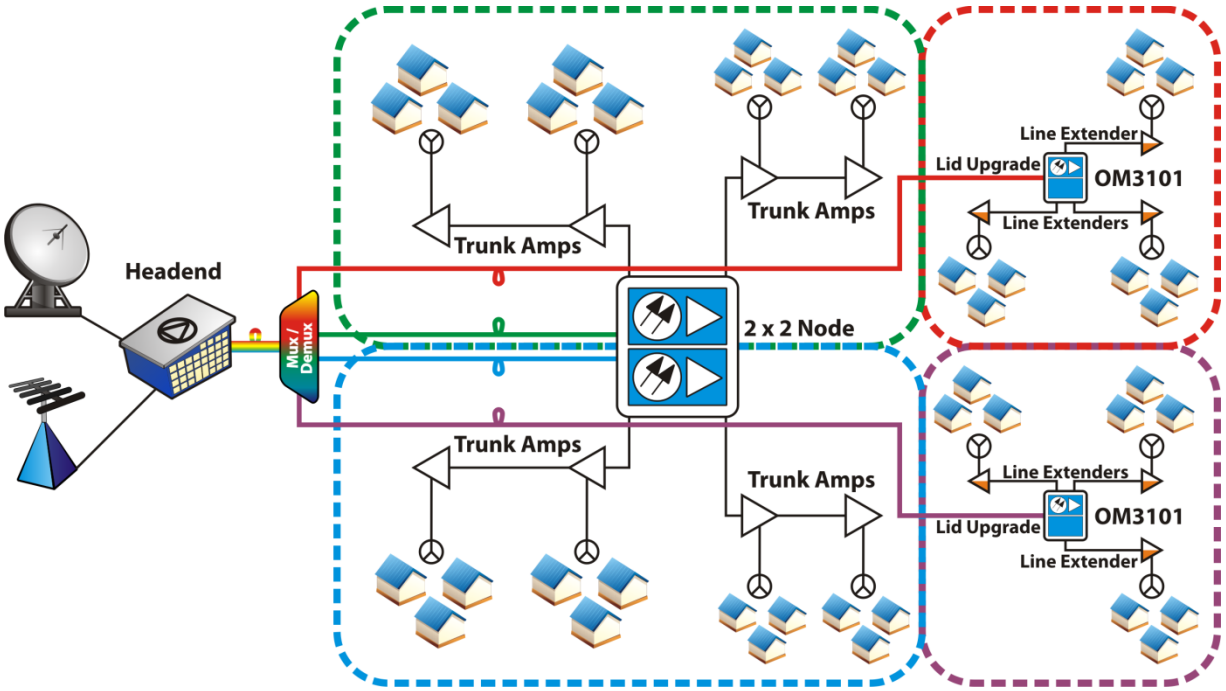


## Applications

### Existing Network with Bridger Amplifiers




### Bridger Upgrade Using OM3101 Reduces Amplifier Cascades, Drives Fiber Deeper



# Opti Max™ OM3101 Product Flyer

www.arrisi.com

Find more information about the Opti Max 3101 - 1 GHz Multiple Output Digitally Segmentable Node at http://arrisi.com/product_catalog/broadband_access.asp
Opti Max 3101 - 1 GHz Multiple Output Digitally Segmentable Node Technical Specifications

### Customer Care

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