

## COMPACT LINE/GLOBAL LINE Nodes

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**LR 54/ LR 55**  
HFC Node



**LR 43**  
HFC Node



**LT 4x**  
Pluggable Upstream Transmitter



KEY FEATURES
1x1 Fiber Node for HFC / CATV applications
Optical automatic level control for constant output level
Easy handling with handset
Integrated fiber management
Output power CENELEC: 110 dBuV (flat) / 113 dBuV (9 dB slope)
Power consumption: < 25 W
Local power (LR 54) or remote power (LR 55)
Various pluggable upstream transmitter LT 4x
HMS management

KEY FEATURES
1x2 fiber node with high output power
Pluggable optical transmitter and receiver modules meeting individual application
Electronic upstream clustering for bandwidth increase
Output power CENELEC: 2x 114 dBuV (6 dB slope)
Power consumption: < 45 W
Local power (LR 43) or remote power (LR 63)
Pluggable Upstream Transmitter LT 4x
HMS management

TECHNICAL INFO	
Laser type	Dual stage isolated DFB laser
Optical output power	+3 dBm/+6dBm
Wave length	CWDM Grid
Frequency range	10 ... 85 MHz
Relative intensity noise	< -145 dB√Hz
Nominal input level	75 dBμV

# VALUE LINE Nodes

**LR 22**  
HFC Fiber Node



## KEY FEATURES

High output level for MDU applications 117 dB $\mu$ V (6dB slope) / 114 dB $\mu$ V (flat)

Two configurable RF outputs with pluggable splitters/taps

DOCSIS 3.1 compliant with Downstream up to 1.2 GHz and Upstream up to 204 MHz

Pluggable diplex filters for migration

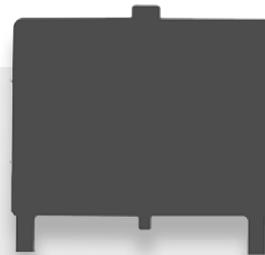
Full adjustment control via wireless bluetooth app or handset OH 41

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Compact housing for outdoor use (IP66)

Locally powered (LR 2x 2xxx) or remote powered (LR 2x 6xxx)

**LT 22**  
Optical Upstream  
Module



## KEY FEATURES

Laser type isolated CWDM DFB lasers

Optical output power +3 dBm output power

Frequency range 5 to 204 MHz

Wave length 1270 ... 1610 nm CWDM grid

Nominal input level (5 % OMI) 75 dB $\mu$ V

**LR 27**  
RFoG Node



## KEY FEATURES

High output level for MDU applications 117 dB $\mu$ V (6dB slope) / 114 dB $\mu$ V (flat)

Two configurable RF outputs with pluggable splitters/taps

DOCSIS 3.1 compliant with Downstream up to 1.2 GHz and Upstream up to 204 MHz

Pluggable diplex filters for migration

Full adjustment control via wireless bluetooth app or handset OH 41

Remote control (compliant to IEC 60728-14) via FSK receiver module

Compact housing for outdoor use (IP66)

Locally powered (LR 2x 2xxx) or remote powered (LR 2x 6xxx)

# OPTOPUS Micronodes

## LR 91

RF Overlay Fiber Node



### KEY FEATURES

Optical input power -8 ... +1 dBm

Output power 100 dBuV (3 dB slope) or 80 dB $\mu$ V (flat)

Variable input attenuator (20 dB)

Electrical downstream test port

LED monitoring of downstream input power

LR 91 W: integrated optical filter for PON-loop-through

## LR 92

HFC Fiber Node



### KEY FEATURES

Optical input power -8 ... +1 dBm

Output power 98 dBuV (6 dB slope) or 80 dB $\mu$ V (flat)

Variable input attenuator (20 dB)

Switchable downstream / upstream test port

LED monitoring of downstream input power and upstream laser operation

LR 92 W: integrated optical multiplexer for US and DS on one single fiber

## LR 93

RFoG Fiber Node



### KEY FEATURES

DOCSIS 3.1 compliant

Optical input power -6 ... +2 dBm

Output power 98 dBuV (5 dB slope) or 80 dB $\mu$ V (flat)

Pluggable Diplex Filter

Switchable downstream / upstream test port

LED monitoring of downstream input power and upstream laser activity

LR 93 W: integrated PON filter for open access architectures