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2007/08 Short Form Catalog

Olson Technology, Inc. provides superior solutions for the cable television industry by designing and integrating high-quality electronic and optical components into cost-effective, systems-oriented solutions. Originally founded to supply frequency agile headend signal processing products through distributors, today Olson offers a comprehensive suite of over 100 leading edge products that facilitate robust broadband signal transmission and processing in CATV, SMATV, HFC, FTTx, PON and DBS environments.

- **LEGENDARY PRODUCT FAMILIES, including:**
 - Headend Signal Processing:*
 - * Modulators, Demodulators & Processors
 - * Upconverters, Downconverters & Tuners
 - * Amplifiers, Splitters & Combiners
 - CATV and L-Band Fiber Optic Transport:*
 - * Optical Transmitters (Up & Downstream)
 - * Optical Receivers (Fwd & Return)
 - * Nodes & Passives
 - * Replacement/Upgrade Modules for OEM Nodes
 - * L-Band/DBS Transport to 4+GHz
 - * Block Converters for Return Path Bandwidth Expansion
 - * EDFA's
 - Extensive Passive Optical Line*
 - * Broad LGX Line
 - * Wide Variety of Optical Couplers, WDM's, etc.
- *OT Branded Products sold through a growing network of*
WORLDWIDE AUTHORIZED REPS & DISTRIBUTORS
- **QUALITY/ENGINEERING/INNOVATION... Since 1985**
- **OEM DESIGN & MANUFACTURING... Our Specialty**
 - * Modulation, Demodulation, Processing & Conversion
 - * Analog Video, Audio & Digital Data
 - * RF Broadband; Optical & Electrical
 - * Specialized Optical & RF Test Equipment

HFC NODES and LEGACY REPLACEMENT MODULES

MetroNode® 4-Port Outdoor Node

● Model# OTMN-II

- High RF Outputs: > +50dBmV (all ports)
- High Sensitivity: > 50dB CNR @ -6dBm
- Field Proven in 1000's of Deployments Worldwide since 2001
- Modular, Scaleable, User-Configurable
- Optical Input Range: -4 to +3dBm (std) -or- -8 to -3dBm (optional)
- Redundancy & Segmentation via 2 Rx & 2 Tx options
- Choice of FP, DFB & CWDM Return Path Tx Lasers
- Compact, Economical, Low Power Dissipation @ 45/90V_{AC}



PremiseNode® 1-Port Indoor Nodes

Model	Output Level	Optical Range	Bandwidth	Return Optics
OTPN-1000	+48dBmV	-6 to +3dBm	54-870MHz*	Yes
OTPN-800H	+38dBmV	-8 to +2dBm	54-870MHz*	Yes
OTPN-800L	+28dBmV	-8 to +2dBm	54-870MHz*	Yes
OTPN-400	+30dBmV	-8 to 0dBm	40-1000MHz	No

* 1000MHz Upper Bandwidth Available, Diplex Splits 42/54MHz & 65/85MHz Available

LegacyPlus® Replacement/Upgrade - Tx & Rx Modules

- **Various Models#** (in single or dual Rx-Tx's per module configurations)
 - Customized Return Tx's, Forward Rx's, etc. for other mfr's nodes
 - Delay or eliminate wholesale node replacement upon obsolescence
 - Facilitates VoIP Upgrades & Return Path Segmentation, as required
 - Designed to perform better than -or- equal to the original OEM's unit
 - Plug-and-Play Compatibility with other Manufacturers' Nodes, including:
 - ✓ SA 6920, Philips 7-OR, Motorola BTN-x & AM-MBR, ADC ISX-30xx
 - ✓ Harmonic HLN384x & HLR3830, Arris/Antec LLRX100/200/400



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CATV and L-BAND FIBER TRANSPORT



Applications Include: Campuses, Institutional, Business, Residential, Government & Military

LaserLite® Forward Path Transmitters

Model	Technology	Power	Distance	Bandwidth
OTOT-870	1310nm DFB	+3 to +15dBm	≤ 45km	40-870MHz
OTOT-1000	1310nm DFB	+3 to +15dBm	≤ 45km	40-1000MHz
OTOT-1000-FF/G	1550nm ECL	+10dBm	≤ 20km	40-1000MHz
OTOT-870-EM55	1550nm EMT	+7dBm x 2	100km+	40-870MHz

LaserLite® 1310/1550nm CATV Return Path Receiver

Model	Output Level	Optical Range	Bandwidth	Return Optics
OTOR-300	+45dBmV	-14 to +3dBm	5-300MHz	N/A

LaserLite® L-Band / DBS / Wideband Transmitters

Model	Bandwidth	Gain Option	Optics Options	Indicators
OTLT-3000	800 to 3000MHz	Fixed	1310, 1550, CWDM	None
OTLT-3600	800 to 3600MHz	Var. Gain & AGC	1310nm DFB	AGC Mode
OTLT-4000	10 to 4000MHz	Digital Gain Adj.	1310, 1550, CWDM	Pwr, RF Input Lvl

LaserLite® L-Band / DBS / Wideband Receivers

Model	Bandwidth	Gain Option	Optical Input	Indicators
OTLR-3000	800 to 3000MHz	Fixed	-15dBm to +3dBm	None
OTLR-3600	800 to 3600MHz	Var. Gain & AGC	-15dBm to +3dBm	AGC Mode
OTLR-4000	10 to 4000MHz	Digital Gain Adj.	-15dBm to +3dBm	Pwr, RF Output Lvl

LaserLite® 1550nm CATV EDFA's

- **Model# OTEA-CO & OTEA-CL** 1RU & 2RU, 19" EIA Rack Mount
- 1-20 Optical Output Ports: Up to +20dBm each (N = 1,2,4, 8, 16 or 20)
- SNMP & RS-232, Mid-Stage Access & DCM Options

LaserLite® Optical Passives

- **Model# OTCP-x** Optical Couplers (1xN; N = 2 to 32)
- **Model# OTOA-1000 (1310nm Only)** Optical Attenuator (-1dB to -7dB)
- **Model# OTWDM-x** WDM Mux/Demux (1310/1550nm)
- **Model# OTCWDM-x** CWDM Mux/Demux (4 -or- 8 ITU's)

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LaserPlus 3RU / 1RU HIGH-DENSITY HFC TRANSPORT PLATFORM

LaserPlus® 3RU 19" EIA Chassis and Power Supplies

- **Models# LP-CH-16B / LP-PS-x**
 - Up to 15 Applications Modules per LaserPlus® 3RU Chassis
 - Mix-and-Match Modules in the Same Chassis, as required
 - Highest Density Optical Platform Available Today
 - Hot-Swappable Dual-Redundant Power Supplies (AC or DC)
 - Remote Monitoring via Contact Closure -or- SNMP



LaserPlus® 1RU 19" EIA Chassis and Power Supply

- **Models# LP-CH-03A / LP-PS-5V**
 - 1RU Platform powered by 5V_{DC} Power Supply for lower density apps
 - Up to 3 Applications Modules per LaserPlus® 1RU Chassis, as required

LaserPlus® Forward Path Transmitters

Model	Technology	Power	Bandwidth	Other Features
LP-OT-x	1310nm DFB	+3 to +15dBm	48-1000MHz	Single/Dual RF In
LP-OT-10-Fx	1550nm ECL	+10dBm	48-1000MHz	QAM & DWDM

LaserPlus® Return Path Transmitters

Model	Technology	Power	Bandwidth	Other Features
LP-OT-10-RCxx	1550nm DFB	+10dBm	5-300MHz	CWDM Option
LP-OT-10-RDxx	1550nm DFB	+10dBm	5-300MHz	DWDM Option

LaserPlus® Return Path Receivers

Model	Output Level	Optical Range	Bandwidth	Other Features
LP-OR-300	+35dBmV	-17 to +3dBm	5-300MHz	Triple
LP-OR-301	+35dBmV	-17 to +3dBm	5-300MHz	Single
LP-OR-302	+35dBmV	-17 to +3dBm	5-300MHz	Dual
LP-OR-304	+35dBmV	-17 to +3dBm	5-300MHz	Dual Redundant
LP-OR-235	+35dBmV	-17 to +3dBm	5-300MHz	Dual with WDM

LaserPlus® L-Band / DBS / Wideband Transmitters

Model	Bandwidth	Gain Option	Optics Options	Indicators
LP-LT-4000	10 to 4000MHz	Digital Gain Adj.	1310, 1550, CWDM	Pwr, RF Input Lvl

LaserPlus® L-Band / DBS / Wideband Receivers

Model	Bandwidth	Gain Option	Optical Input	Indicators
LP-LR-4000	10 to 4000MHz	Digital Gain Adj.	-15dBm to +3dBm	Pwr, RF Output Lvl

LaserPlus® EDFA

Model	Output Power	Gain	Noise Figure	λ Range
LP-EDFA-x	+13 to +18dBm	30dB	5.5dB Max	1528-1562nm

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HEADEND SIGNAL PROCESSING

Features Include:

- Frequency Agile Channel Selection
- >80dB Out-of-Band Carrier-to-Noise
- High RF Output. Lowest Power Consumption
- Cost-Effective. Excellent Value
- Installed in 1000's of Headends Worldwide



OT[®] Frequency Agile Modulators

- **Model# OTM-3550** Single; 54-550MHz OUT; Dual IF
- **Model# LCM-6550** Triple; 54-550MHz OUT; Single IF

OT[®] Frequency Agile Demodulators

- **Model# OTD-3000** 54-801MHz IN; IF Output

OT[®] Frequency Agile Processors

- **Model# OTR-3550** 54-801MHz In; 54-550MHz Out; 1 IF
- **Model# S450P** 54-801MHz In; 54-550 MHz Out; 1 IF

RETURN PATH BLOCK CONVERTERS

Features Include:

- 4:1 Return Path Frequency Stacking, Carries Entire 5-42MHz Band
- No Frequency Error, Low Noise & Distortion, High CNR/NPR

OT[®] Upconverters

- **Model# OTUC-x** 1RU 19" EIA, No Optics & 1310nm, 1550nm, CWDM
- **Model# FRMUC-x** ONU Module, No Optics & 1310nm, 1550nm, CWDM

OT[®] Downconverters

- **Model# OTDC-x** 1RU 19" EIA, With & Without Optics
- **Model# LP-DC-x** LaserPlus Module, With & Without Optics

ETHERNET TRANSPORT

EtherNodePlus[®] 10/100 SM Media Converter

- **Model# OTEN-131**
- 40+km Bidirectional transport of 10/100 BaseT at 1310nm
- Plug-and-Play, Robust, Cost-Effective



Note: All specifications in this Short-Form Catalog are subject to change without notice.

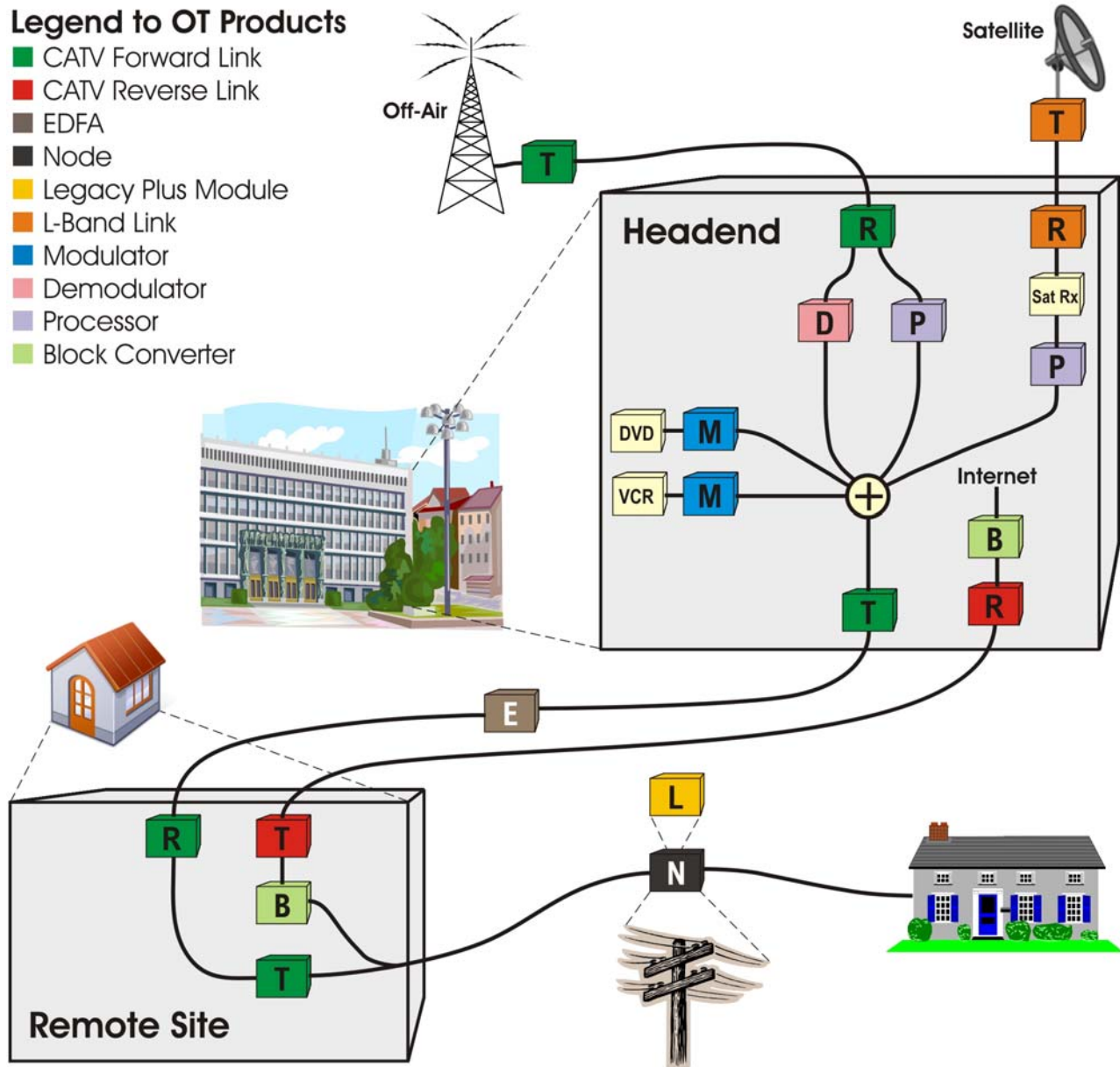
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Olson Technology Applications

Legend to OT Products

- CATV Forward Link
- CATV Reverse Link
- EDFA
- Node
- Legacy Plus Module
- L-Band Link
- Modulator
- Demodulator
- Processor
- Block Converter



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