

Why DISH Optical Network? The facts speak for themselves:

- Capacity to deliver over 400 HD channels of bandwidth to each subscriber
- Equipment investment model based on guaranteed consumer
- Affordable option for property managers to have DISH Network as a primary or secondary provider
- Residents enjoy the full DISH Network experience, getting the most and best at the lowest cost
 - DISH Optical Headend - \$6,999
 - DISH Optical Switch - \$249
- Complete programming lineup, including TurboHD and the largest selection of Latino and International entertainment
- Compatible with standard DISH Network receivers, including award-winning HD DVR – rated as Editors' Choice by CNET (cnet.com, 2/19/08)
- No additional equipment required
- 100% digital picture and sound

The new DISH Optical Network expands DISH Network's already robust MDU distribution offerings, including:

- L-band solution ideal for garden-style communities
- QAM system designed to use existing wiring

For more information contact us at commercial@dishnetwork.com.



DISH OPTICAL NETWORK

FTTH Satellite Television Solution



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DISH Network proudly introduces our first MDU fiber-to-the-home solution.

High-Capacity DISH Network optical transport system

- Headend system aggregates up to four satellite feeds and distributes over one strand single mode fiber
- Baseline system provides service to 256 simultaneous residential units and is infinitely scalable when combined with optical power amplifiers
- Each subscriber unit supports up to three dual-tuner or three single-tuner DISH Network receivers
- Plug-and-play receiver compatibility with no additional equipment to buy

Headend Processor System (Optical Multiplexer)

Part #161299

Input Signal	Up to four 950-2150 MHz dual-polarity satellite feeds
Input Connectors	Four female F-connectors
Output	One dual wavelength (1530 / 1550 nm) single mode fiber output
Output Connectors	One FC/UPC single mode fiber connector
Output Optical Power	+23 dBm total (+20dBm each wavelength)
System Power	120V AC
Status & Monitoring	LED Indicators (system DC power and optical alarms), Optical power output monitor port.

Subscriber Unit (ODPP-43 Integrated Optical De-multiplexer and RF Multi-switch)

Part #161297

Input	One dual wavelength (1530 / 1550 nm) single mode fiber
Input Connector	One FC/UPC single mode fiber connector
Input Optical Power	-13 dBm +/- 2dB
Output	Three female F-connector ports (DISH Pro Plus capable)
System Power	Line powered by receiver (No AC power required)
Receivers	Up to three single- or dual-tuner receivers per subscriber unit
System optical budget	30 dB nominal (supports two ODPP-43s per residential unit)

DISH Optical Network Distribution

