

Return Path System

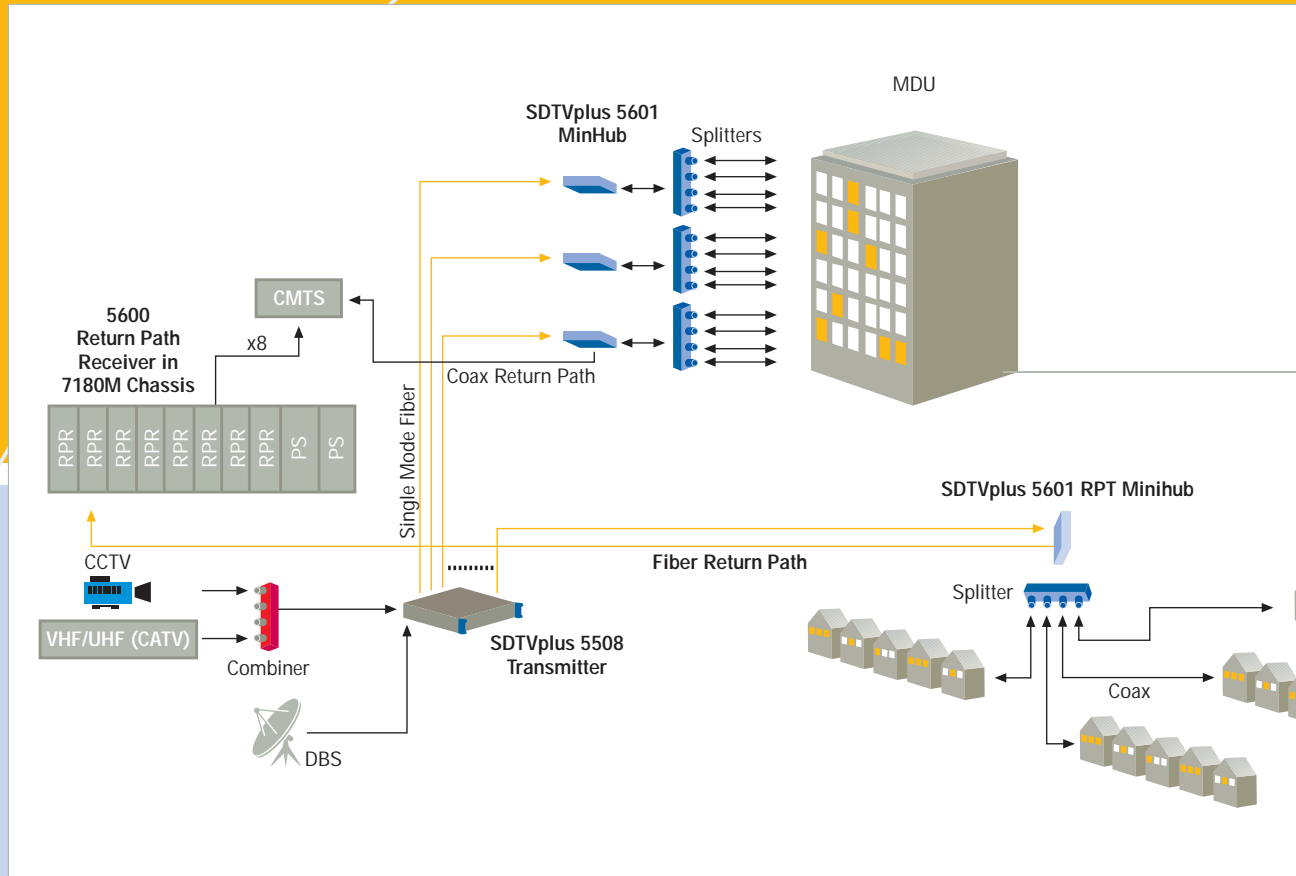
- *Bundled Services Over A Single Fiber*
- *2.4 GHz of Bandwidth*
- *Serve Up to 480 Units with a Single Transmitter*
- *Full 2 Way Compatibility - Ready for Advanced MDU Services*



Foxcom's SDTVplus Return Path System is your cost effective solution for deploying advanced broadband hybrid fiber-coax (HFC) services in any MDU complex. SDTVplus enhances your service offerings without requiring an upgrade of your existing system. SDTVplus delivers services such as CATV, DBS, local off air television, cable modem based internet, security, VOD, and video conferencing in an easy to deploy and easy to maintain

system. The SDTVplus Return Path System can be installed over either coax or fiberoptic infrastructures. The SDTVplus system deploys services to units up to 3.5 kilometers away from the SDTVplus Transmitter. SDTVplus is your ideal MDU solution in garden style and high rise complexes, business parks, stadiums, hospitality (even residential areas!) - anywhere high density connectivity is required.

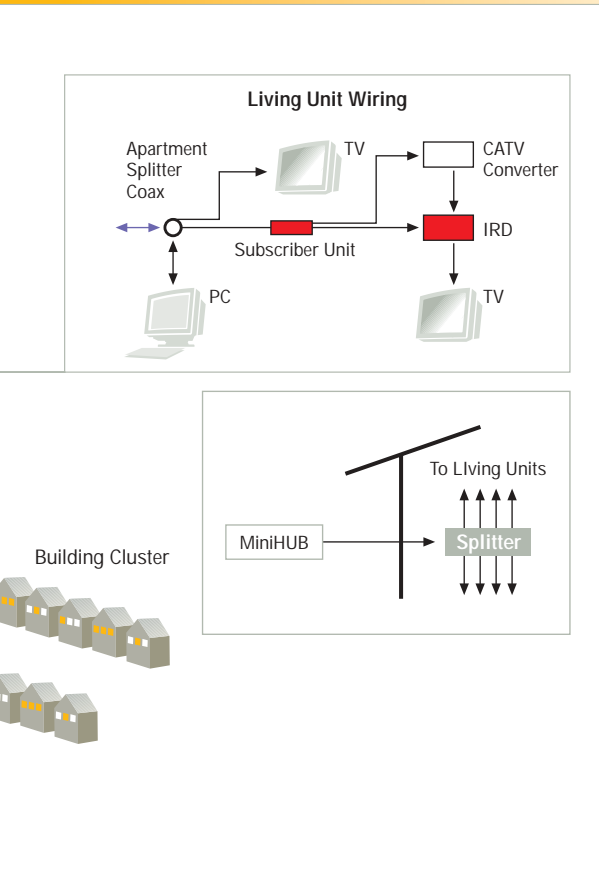
SDTVplus System Block Diagram showing the two return path options



FIBER RETURN PATH SYSTEM

The SDTVplus Fiber Return Path System utilizes singlemode fiberoptic cable to provide both forward and return path services. From a single central point, the SDTVplus Transmitter converts DBS, CATV, and Internet signals to optic and then transmits the optical signal to multiple Return Path MiniHub receivers throughout the property. The Return Path MiniHub converts the optical signal to RF and then sends the signal to the homeowner via coax. In the home the signal is split

and sent to several TVs and a PC. Using a series of high frequency splitters, up to 30 homes can be served from a single MiniHub. Return path services are provided over the same infrastructure. Internet upstream signals are sent from each computer via coax to the Return Path MiniHub. The MiniHub converts the incoming RF signals to optic, and transmits the signal to the Return Path Receiver. The Return Path Receiver, which sits in a chassis near the Headend, reconverts the optic upstream to RF and passes the signal onto the CMTS.



Benefits

- **Flexibility - Fully Integrates with Existing CCTV, CATV, DBS and HFC Architectures**
- **Reduce Costs via:**
 - **Fewer Actives**
 - **Low Maintenance**
 - **Increased Reliability**
- **Maintain System Integrity**
- **Eliminate Return Path Ingress Using Fiber Return Path**

SYSTEM ACCESSORIES

The SDTVplus System comes with a complete line of accessories, providing a complete solution.

Power Adapter - (P/N 5331)

Splitters (optional):

- 2 Way (P/N HA-SP12)
- 3 Way (P/N HA-SP13)
- 4 Way (P/N HA-SP14)

Power Inserter (P/N SA-PUDAA) (optional)

Upconverter (P/N 5351-xx)

Subscriber Unit (P/N 5322-xx) (downconverter)

System Components

Fiber optic Transmitter:

- 4 Port - (P/N 5504)
- 8 Port - (P/N 5508)
- 16 Port - (P/N 5516)

Return Path Transmitter MiniHub - (P/N 5601-RPT)

Return Path Fiber optic Receiver - (P/N 5600-RPR)

Chassis - (P/N 7180M)

COAX RETURN PATH SYSTEM

The SDTVplus Coax Return Path System works in a similar fashion. All downstream functions are the same. Return path services can be provided over coax cable. The SDTVplus MiniHub is transparent to cable modem units for high-speed Internet applications.

System Components

Fiber optic Transmitter:

- 4 Port - (P/N 5504)
- 8 Port - (P/N 5508)
- 16 Port - (P/N 5516)

MiniHub - (P/N 5601)

CATV Specifications			
Output Frequency Range	54 - 862 MHz		
MiniHub Output Power/Channel	@ 54 MHz	@ 862 MHz	
NTSC @ 100 Channels			
	+40 dBmV (min.)	+43 dBmV (min.)	
MiniHub Uptilt	+3 dB		
DBS Specifications			
Output Frequency Range	950 - 2400 MHz		
SNR	18 dB		
MiniHub Output Power / Transponder	@ 950 MHz	@ 2 GHz	
	-3 dBm (min.)	+1 dB (min.)	
MiniHub Uptilt	+4 dB		
Link Specifications ¹ (Transmitter to MiniHub)			
CATV @ 60 Channels (typical)			
CNR @ 0 dBm optical input	CTB	CSO	XMOD
48 dB (min.)	-55 dBc (min.)	-53 dBc (min.)	-55 dBc (min.)
DBS			
S/N	18 dB @ -1 dBm optical input		
Minimum System Optical Budget	1.2 dB		
Link Specifications ² (RPT MiniHub to Return Path Receiver)			
Link Gain @ 4 dB Optical Loss	10 dB (typical)		
Flatness	±1 dB (Across Pass Band)		
Dynamic Range*	10 dB		

* Specified for 4 dB optical budget and 43 dB NPR, over the entire temperature range.

1 These specifications are relevant to both MiniHub models, 5601 and 5601-RPT

2 These specifications are relevant to the Return Path MiniHub only (5601-RPT) and the Return Path Receiver (5600)



Complete RF-2-Fiber Solutions

Foxcom Inc.
 600 College Road East
 Suite 3400
 Princeton, New Jersey 08540
 USA
 Tel: 609-514-1800
 Fax: 609-514-1881

Foxcom Ltd.
 Beck Science Center
 8 Hartom Street, Har-Holtzvim
 P.O. Box 45092, Jerusalem 91450
 Israel
 Tel: +972-2-589-9888
 Fax: +972-2-589-9898

E-mail: sales@foxcom.com

Website: www.foxcom.com