

Features:

- Modular design
- Small size for in building and tunnels
- Micro processor control and alarm
- Ethernet interface to NMS
- Design blocks are universal to all of the family of tunnel amplifiers



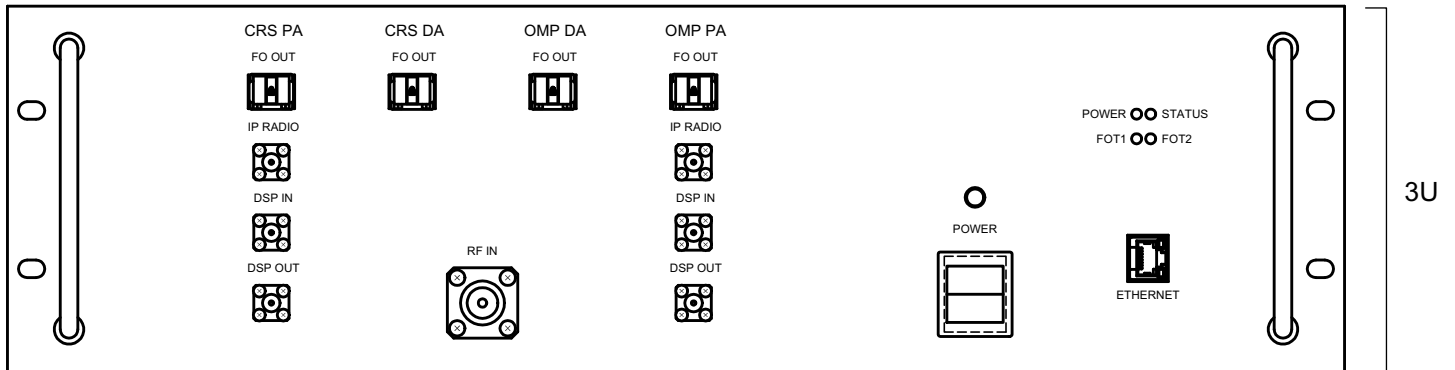
This product builds on thirty years of experience in the custom design and build of products for In-Building Wireless applications. The 1456FOI was designed as the interface to the 1456DSP DSP Card Cage.

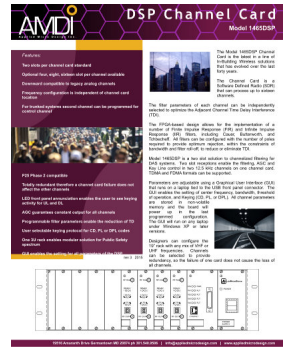
The purpose of the 1456FOI is to switch signals from the Distributed Antenna System (DAS) into one of two redundant DSP card cages and to switch the corresponding outputs to the Cross-Band Couplers (CBC) that combine the communications signals with the Gateway IP Radio that is part of the Loop-Back sub-system.

The chassis also contains the Fiber Optic Transmitters and the Optical Diplexers that convert the CBC RF output to fiber and split the fiber optic signal to the 1456FFDPA power amplifier and the Head-End Digital Attenuators.

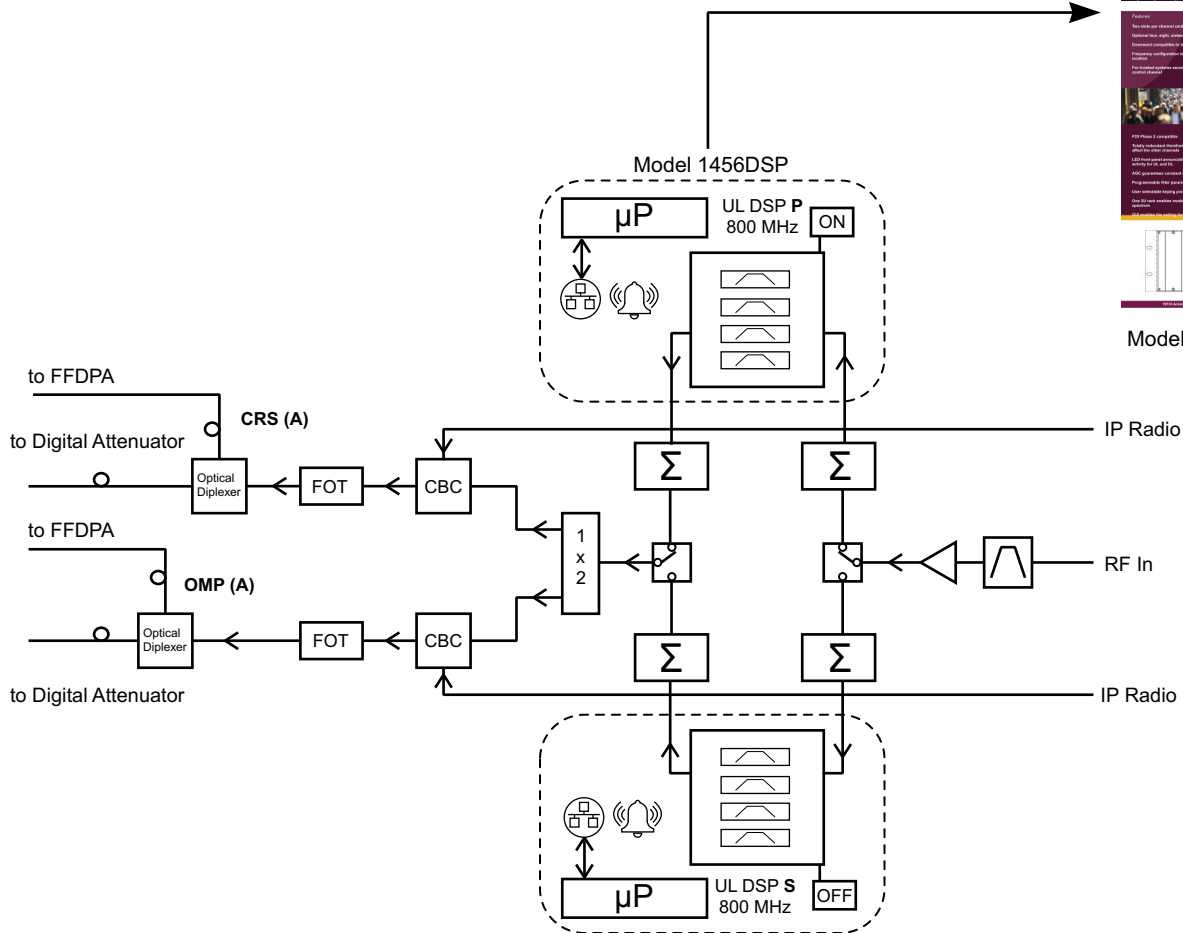


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Model 1456DSP Datasheet



Model 1456UFOI Product Block Diagram

Fiber Optic Specifications

Frequency Range:	50 kHz - 3 GHz
Operating Mode:	Supports Full-Duplex & simplex communications
Channel Capacity: Base Unit (BU)	8 Full-Duplex or 8 Simplex Channels
Gain:	17 dB typical
Transmitter Output Power:	> 1 mW optical
VSWR I/O:	2:1 maximum
Output Noise Floor:	-129 dBm (with 1 meter fiber, 2.5 GHz)
Spur-Free Dynamic Range:	> 102 dB
Input 3rd Order Intercept:	> 24 dBm
RF Input to Xmtr:	+ 10 dBm maximum
Power Requirement (module):	TX ± 12 V @ <50 mA
Connectors:	RF: SMA Female Optical: SC/APC
Operating Temperature:	-20 °C to +60 °C
Storage Temperature:	-50 °C to +85 °C
Humidity:	90% non-condensing
Weight:	< 1 lb.
Enclosure Size:	3/4" W x 3" L x 7/8" H
Fiber Optic Cable Type:	9/125 μm Single-Mode
Wavelength:	1310 / 1550 nm

