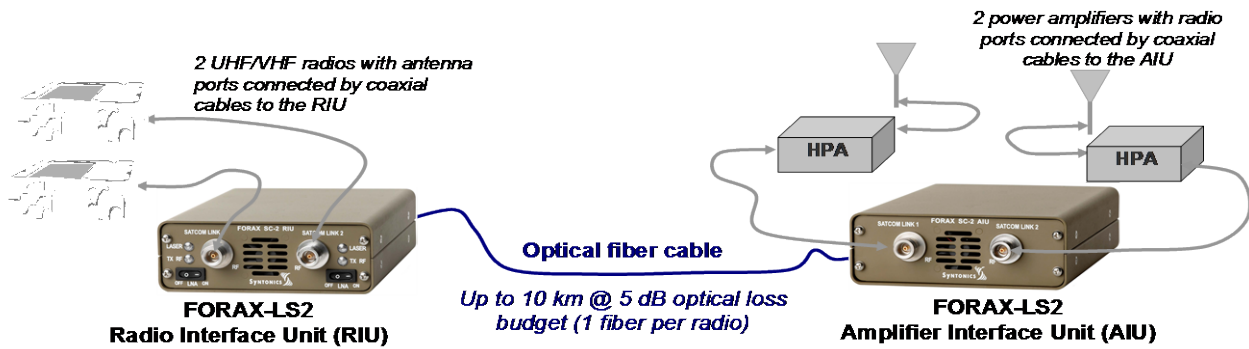


## FORAX-LS2 RF-over-Fiber Communications System

The FORAX-LS2 connects one or two radios to distant antennas. The FORAX-LS2 will support all current UHF and VHF line of sight (LOS) to include UHF DAMA SATCOM radio operations utilizing any of the frequencies from 30-512 MHz. The FORAX-LS2 offers a high performance alternative to conventional radio to antenna coaxial cable connections, affording greater flexibility in antenna location plus opto-isolation for all the User's radios. Antennas can be located up to 10 km from the radios while the radio remains near the User enhancing the physical security of the radio and it's User.



A FORAX-LS2 system consists of a Radio Interface Unit (RIU) connected by a User-supplied optical fiber cable to an Amplifier Interface Unit (AIU). At the radio site, the RIU is connected to each radio's antenna port by short coaxial cables. At the antenna site, the AIU is connected to each high power amplifier (HPA) with short coaxial cables. Each AIU link provides 2W transmit power to drive the HPA.

### FORAX-LS2

<i>Product Characteristics</i>	
<i>Frequency Range</i>	30-512MHz
<i>Supported Waveforms</i>	Unrestricted/Amplifier Limited
<i>Connectors</i>	RF-TNC/Fiber :SC-APC
<i>RF Input Power</i>	1-5 Watts Typical 20 Watts Survivable
<i>RF Out Drive Power</i>	2 Watts
<i>Fiber Type Installation Notes</i>	Single Mode / Single Fiber
<i>Fiber Range</i>	10 KM Max-1 KM Typical 5dB loss
<i>Power Supply</i>	11-34 V DC
<i>Power Consumption</i>	15W TX / 8W RX
<i>Physical/environmental</i>	
<i>Dimensions</i>	2.5w x 1.5H x 6D inches 6.4W x 3.8H x 15.3 D centimeters
<i>Weight</i>	8.8 lbs./ 4kg. Maximum per system
<i>Operating Temperature</i>	-10 to +60C
<i>Storage Temp</i>	-40 to +80 C
<i>Fiber Type Installation Notes</i>	Single Mode / Single Fiber

**FORAX-LS2**

Optional Accessories	Sytonics Part Number
<b>90-240 VSC Power Adapter</b>	TBD
<b>Fiber Spool- Multiple Lengths Available</b>	TBD
<b>BA5590 Power Adapter Assembly</b>	TBD
<b>Field Expedient DC Power Kit</b>	TBD
<b>RF Amplifier Kit TSE-AMP-M850</b>	TBD
<b>Special Keyline Adapter Assembly</b>	TBD