



Part #: TSE-FORAX-LS

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

A FORAX-LS 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 the radio's antenna port using a short coaxial cable. At the antenna site, the AIU is connected to the high power amplifier (HPA) with a short coaxial cable. Each AIU link provides 2W transmit power to drive an external HPA.



Features

- Connects TACSAT and LOS radios to remote antennas using optical fiber
- Supports 30-512 MHz Frequency Range
- Compact Design
- Fixed and Mobile Command Centers
- 6-32 VDC Input
- Weight – 3 lbs. (1.5 lbs. per module)

Tactical Support Equipment Inc.
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For More Information
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Specifications (TSE-FORAX-LS)

Frequency Range	30-512 MHz
Supported Waveforms	All Tactical Waveforms (Keyline optional. Switch-selectable for constant envelope or variable envelope waveforms), Unrestricted Limited by Amplifier used
Connectors	RF-TNC, Fiber: SC-APC (FC-APC optional)
RF Input Power	1-5 Watts Typical (Depending on configuration selected), 20 Watts Survivable
RF Output Drive Power	2 Watts (30-512 MHz)
Fiber Type Installation Notes	Single Mode / Single Fiber per LS Channel SC/APC
Fiber Range	1-10 KM Typical, 5dB optical loss maximum
Power Supply	18-32 VDC (AC Adapters included)
Power Consumption	RIU: 3W, AIU: 16W RX / 40W TX
Dimensions	2.75" W x 2" H x 6.5" D (70 W x 51 H x 166 D mm) per module
Weight	3 lbs. (1.5 lbs. per module)
Operating Temperature	-10 to +60C
Storage Temperature	-40 to +80C

Optional Accessories

Item	Part Number
Universal AC Adapter, with international plug adapter kit	TSE-FORAX-LS-AC
Universal AC Adapter, with international plug adapter kit, with Keyline	TSE-FORAX-LS-ACK
Cable, DC Power Pigtail	TSE-FORAX-LS-DC-P
Cable, DC Power Pigtail, with Keyline	TSE-FORAX-LS-DC-PK
Cable, DC Power, Vehicle Cigarette Lighter	TSE-FORAX-LS-DC-VCL
Cable, DC Power, Vehicle Cigarette Lighter, with Keyline	TSE-FORAX-LS-DC-VCLK
Cable, DC Power, BB2590/U Battery	TSE-FORAX-LS-DC-2590
Diamond plenum rated, SC-APC, 1-km cable length	TSE-FORAX-SC-APC-1KM
Diamond plenum rated, SC-APC, 500-m cable length	TSE-FORAX-SC-APC-500M
Diamond plenum rated, SC-APC, 100-m cable length	TSE-FORAX-SC-APC-100M

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