

Corporate Profile

MPS, Inc. is a leading edge engineering firm that specializes in the design, development and manufacture of RF/Fiber optic components, modules, and subsystems. MPS fulfills multiple roles providing these hardware items including OEM supplier, design consultant, and contract manufacturer. MPS has been providing proprietary technology solutions to military agencies, defense contractors, research facilities, and commercial customers since 1997.

MPS is a privately held company whose strengths include Project Management, Operations Research, Design and Life Cycle Engineering, Quality Control, and Supply Chain Management. MPS maintains a professional and multi-disciplined engineering staff with the requisite skills to provide turnkey engineering solutions to the most demanding problems. MPS's wealth of experience facilitates our commitment to providing a finished product that meets our customer's expectations for cost, delivery, and performance.

MPS has provided RF/Fiber optic subsystems, modules, components, and embedded software that have supported various Air Force, Army, and Navy mission critical programs. Our products are currently in service with many DoD programs including the F-22 Fighter, Towed Sonar Array, UHF SATCOM Ground Station, Shipboard GPS Antenna Link, Shipboard Fiber Optic Data Multiplexing System (FODMS), and the National Fusion Ignition Facility.

ANALOG IF & RF FIBER OPTIC INTERFACILITY LINKS (IFL)

MPS designs, manufactures, and markets an array of broadband and application-specific analog IF and RF/Fiber optic IFL subsystems under the OFW[®] series label. MPS's proprietary technology makes our IFLs the logical choice when transporting radio and satellite communication signals between remote points separated by up to 20 kms. The OFW[®] IFL subsystems, coupled with fiber optic cables provide the system integrator with the advantages of:

- Low Loss RF Transmission (< 0.35 dB/km):
- Ultra-Flat Attenuation vs. Frequency (> 10 GHz of Bandwidth):
- Immunity to EMI and Lighting Surges:
- Isolation of Red / Black Communication Pathways.

MPS offers a standard line of OFW[®] IFL subsystems that cover the following frequency bands: 5 – 200 MHz, 50 – 1000 MHz, 500 – 2500 MHz, 0.1 – 5.0 GHz, and 0.1 – 10.0 GHz. In addition, MPS offers application-specific IFLs that can be customized to meet your requirements and specifications over various communication bands including: SATCOM at UHF, L-Band, S-Band, C-Band, and X-Band.

DIGITAL & ANALOG RF FIBER OPTIC LINK MODULES

MPS designs, manufactures, and markets a broad line of digital and analog IF and RF fiber optic link modules under the *MP*[®] series label. The *MP*[®] series includes transceivers, transmitters, and receivers. MPS's fiber optic link modules are built upon a proprietary technology platform that enables our products to deliver unsurpassed performance over the entire spectrum of digital and RF communication applications.

The system designer, utilizing the *MP*[®] series of modules in tandem with other digital and RF hardware, can be guaranteed to engineer a cost effective solution for the most complex fiber optic transport problem. Digital protocol applications include such formats as: RS – 232, RS – 422, RS – 485, USB, Ethernet, and Fiber Channel. Radio frequency applications include: 70/140 MHz IF, UHF, Trunk Radio, GSM, PCS, L-Band, GPS, X-Band, Radar Delay Lines, and Ultra-wide Band (1.0 MHz – 10.0 GHz).



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OPTICAL NETWORK CABLING & PASSIVE OPTIC NETWORK (PON) COMPONENTS

MPS designs, manufactures and markets an extensive inventory of Optical Network Cabling and Passive Optical Network (PON) components under the MPS® series label.

The MPS® series of **Optical Network Cabling** products include:

- MPS-1000 Singlemode, Simplex Optical Jumper Cable
- MPS-1050 Singlemode, Duplex Optical Jumper Cable
- MPS-1100 Multimode, Simplex Optical Jumper Cable
- MPS-1150 Multimode, Duplex Optical Jumper Cable
- MPS-1200 Optical Drop Cable/ Optical Node Stub
- MPS-1300 Interfacility Distribution Cable
- MPS-1800 Optical Cable Payout Reel 450'
- MPS-1850 Optical Cable Payout Reel 1000'
- MPS-1900 Optical Cable Payout Bucket 450'
- MPS-1950 Optical Cable Payout Bucket 1000'

The MPS® series of **Passive Optic Network (PON)** devices include:

- MPS-2000 Optical Isolator
- MPS-2100 Singlemode Inline Optical Attenuator
- MPS-2150 Multimode Inline Optical Attenuator
- MPS-2200 Singlemode Optical Terminator
- MPS-2250 Multimode Optical Terminator
- MPS-2300 Singlemode Optical Splitter (Single or Dual Window)
- MPS-2350 Multimode Optical Splitter
- MPS-2400 Singlemode Solid State Variable Optical Attenuator (VOA)
- MPS-2500 Singlemode Variable Optical Attenuator (VOA)
- MPS-2550 Multimode Variable Optical Attenuator (VOA)
- MPS-2600 Duplex Optical Mode Conditioner/ Gigabit Launch Cable
- MPS-2700 Singlemode Wavelength Division Multiplexer (WDM)
- MPS-2750 Multimode Wavelength Division Multiplexer (WDM)
- MPS-2800 Course Wavelength Division Multiplexer (CWDM)
- MPS-2900 Dense Wavelength Division Multiplexer (DWDM)

The MPS® series of PON devices can be sold separately or integrated into higher order assemblies. These assemblies can be configured to meet various performance specifications in order to be compatible with the customer's form, fit, and function requirements.

MPS manufactures specialty and military qualified optical cable assemblies; such as, harsh environment optical cables, small form factor optical harnesses, and M28876 and M38999 multi-channel optical cables.

