

C37.94/SHDSL FSU **NEW**

FIBER SERVICE UNIT



HPS/RFL™ is proud to introduce the new C37.94-to-SHDSL Fiber Service Unit (FSU) to its FSU family of products. The SHDSL-FSU (Symmetric High bitrate DSL Fiber Service Unit) is standalone device that serves as a media converter between electrical ITU-T G991.2 SHDSL signals and optical IEEE C37.94 fiber protocol signals. It is designed to enable modern C37.94 equipped application devices to communicate over legacy copper pilot wire infrastructure. The C37.94 fiber interface also comes with a non-standard single-mode LED as an option for longer distances between the application device and the FSU.

The C37.94-to-SHDSL FSU is the perfect cost-effective solution in a single stand-alone platform to transport protective relaying devices or any industrial devices reliably over existing long copper lines. The FSU unit is capable of switching or distributing SHF/TDM payload between individual HDSL ports.

KEY FEATURES AND BENEFITS

C37.94 SHF DATA CHANNELS OVER SHDSL

Provides single IEEE C37.94 SHF Data Channel over up to four industry standard SHDSL signals.

EASY CONNECTION TO EXISTING COPPER LINES

Connect your protective relaying devices over existing long copper lines without the need for expensive communications devices.

PERFORMANCE

the SHDSL signals can be conveyed over a single twisted pair, or 2 or 4 pairs (M-pair working). Using multiple pairs as oppose to single pair improve performance by increasing reach and payload bandwidth.

C37.94 FIBER INTERFACES

Available in either multi-mode or single-mode fiber interface for either short or long distances.

RUGGED-DESIGN

Designed for harsh environments.

USER-FRIENDLY CONFIGURATION

User-friendly configuration using pre-programmed profiles DIP-switches, or the Windows-based user interface.

ORDERING CATALOG NO.

- RF-SP107780-1 SHDSL C37.94 SHF FSU 850NM LED Multimode - 48/125Vdc
- RF-SP107780-2 SHDSL C37.94 SHF FSU 1300NM LED Singlemode - 48/125Vdc
- RF-SP107780-3 SHDSL C37.94 SHF FSU 850NM LED Multimode - 24Vdc
- RF-SP107780-4 SHDSL C37.94 SHF FSU 1300NM LED Singlemode - 24Vdc



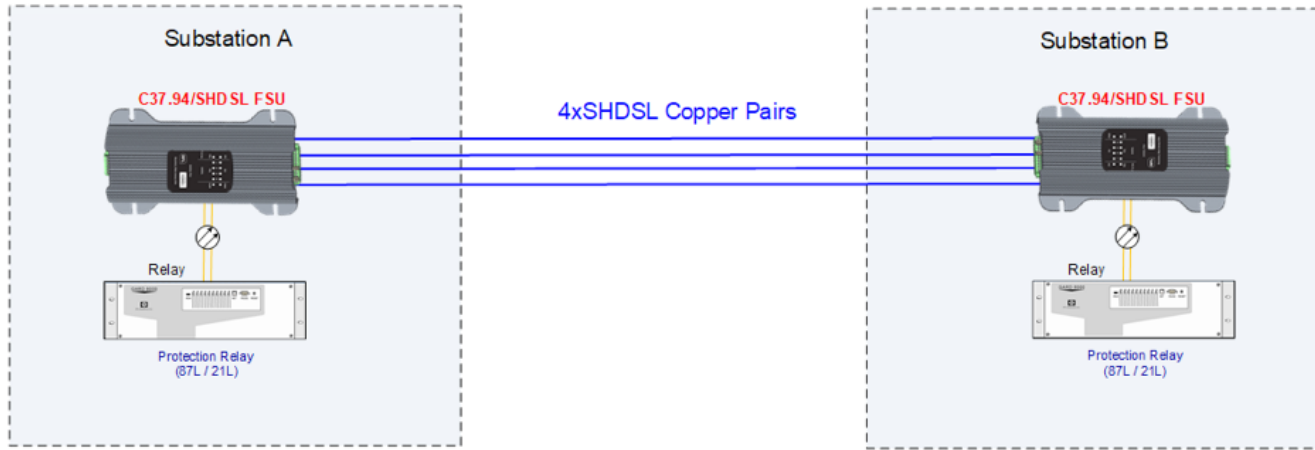
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FSU APPLICATION



TECHNICAL SPECIFICATIONS

INTERFACES

C37.94 AND SHDSL CONNECTOR SIDE

- SHDSL: Upto 4-channels w/ M-pair bonding
ITU-T G.991.2 12/2003
DSL Terminal Unit Modes:
STU-C (Central)
STU-R (Remote)
Compression screw terminals connector
- C37.94 optical: Single port pairs
IEEE C37.94 for N (1...12) times 64 kb/s.
Multi-Mode Version:
50 or 62.5µm 820/850nm MM LED (2km)
ST Connector
Single-Mode Version:
9µm 1300nm SM LED (10km)
ST Connector
- Micro-USB:
Unit Configurations

POWER AND ALARM CONNECTOR SIDE

- Power Supply: Compression terminal block
- Chassis Ground: Grounding stud
- Alarm Contacts: Compression terminal block

TIMING MODES:

- Internal
- Through

POWER SUPPLY SPECIFICATIONS

- 48/125Vdc nominal (38 to 150Vdc)
- 24Vdc nominal (19 to 32Vdc)
- Power Consumption: Less than 20W

ALARM OUTPUT

- Alarm Relay Contact: Form C (SPDT)
- Contact Rating: 5A @ 30V dc/100mA @ 300Vdc,
Non- inductive

MANAGEMENT

- Unit configured by DIP-switches for profile 1 & 2
- Windows-based Graphic User Interface (GUI) via
Micro-USB port

ENVIRONMENTAL AND REGULATORY COMPLIANCE

- Operating Temperature: -25 deg C to +55 deg C
- IEC 60068-2-1/-2-2/-2-30: Environmental and Humidity
- IEC 61000-4-6/-4-3: Conducted and Radiated RFI
- IEC 60255-26: Conducted and Radiated Emissions
- IEC 61000-4-8 / -6-2: Magnetic Field Immunity
- IEC 61000-4-2: Electro Static Discharge (ESD)
- IEC 61000-4-4: Electrical Fast Transients (EFT)
- IEC 61000-4-5/-4-12: Surge Withstand and Damped Oscillatory
- IEC 61000-4-5: Surge (4kV)
- IEC 60255-5: Dielectric Strength and H.V. Impulse
- IEC 61000-4-29: Voltage (Power) Interruptions
- IEC 60255-21-1/-21-2/-21-3: Environmental -Shock,
- Vibration, Bump and Seismic
- IEC 62368-1: Product Safety Compliance
- CE Mark Compliance

MECHANICAL CONFIGURATION:

SELF-CONTAINED MOUNTING

- Length: 297mm (11.7in)
- Width: 170mm (6.7in)
- Depth: 60.1mm (2.4in)



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