

Acterna HSM1000 Stealth Modem

Technical Specifications

HSM1000 Stealth Modem

The HSM1000 Stealth Modem is used in combination with the PathTrak Headend Control Unit (HCU) or the Phasor DSP565 to transport data from the PathTrak to the Stealth SDA-5000 / 4040D field meters.

The HSM1000 is a required component of the Field View feature, which allows the network technician to observe real-time headend spectrum graphs at field locations using the SDA.

Data is transmitted to the SDA-5000 / 4040D via an FSK modulated (100 kHz) telemetry carrier. The telemetry can be inserted in any unoccupied bandwidth on the forward path up to 1000 MHz, with an adjustable output level from +20 to +50 dBmV. All telemetry parameters are programmable via PathTrak or Phasor software.

The HSM1000 connection with the PathTrak HCU or Phasor DSP565 is accomplished via standard RS232 communication, and a rear panel RF output port allows for easy coupling to the cable systems forward path. The universal power supply adapts to all international standards with an input voltage range of 85-264 VAC / 47-440 Hz.



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HSM1000 Operational Specifications

Transmitter

Frequency Range: 5 to 1000 MHz
Frequency Accuracy: @ 25 degrees C; ± 10 ppm
Drift Range Over Temp: +10 ppm;
..... Aging: +3 ppm/year
Tuning Resolution: 10 kHz
Level Range: +20 to +50 dBmV
Level Resolution: 2 dB
Level Accuracy: ± 3 dB

In-Band Spectral Purity

Harmonics: -30 dBc
Spurious: -35 dBc
Telemetry: Forward telemetry user defined, 5-1000 MHz
Modulation: FSK, 100 kHz deviation
Spectrum Required: 1 MHz recommended
Spectral Occupancy: -15 dBc at 500 kHz offset
..... -34 dBc at 1 MHz offset
..... -55 dBc at 2 MHz offset
(with respect to non-modulated telemetry RF carrier nominal level, measured in 300 kHz RBW with 100 kHz VBW)

Telemetry Capability

Speed with Multiple User: 0.5 sec / unique display typical
HCU Data Interface: Serial, RS232 compatible, up to 57.6 kbps
Aux. Data Interface: Serial, RS232 compatible, up to 57.6 kbps

Physical / Operational

Dimensions: 16.73" x 1.73" x 10" (standard 1 U rack mount)
Weight: 7.5 lbs.
Operating Temperature Range: +0 to +50 degrees C, 32 to 122 degrees F
Operating Relative Humidity: 20% to 80% RH

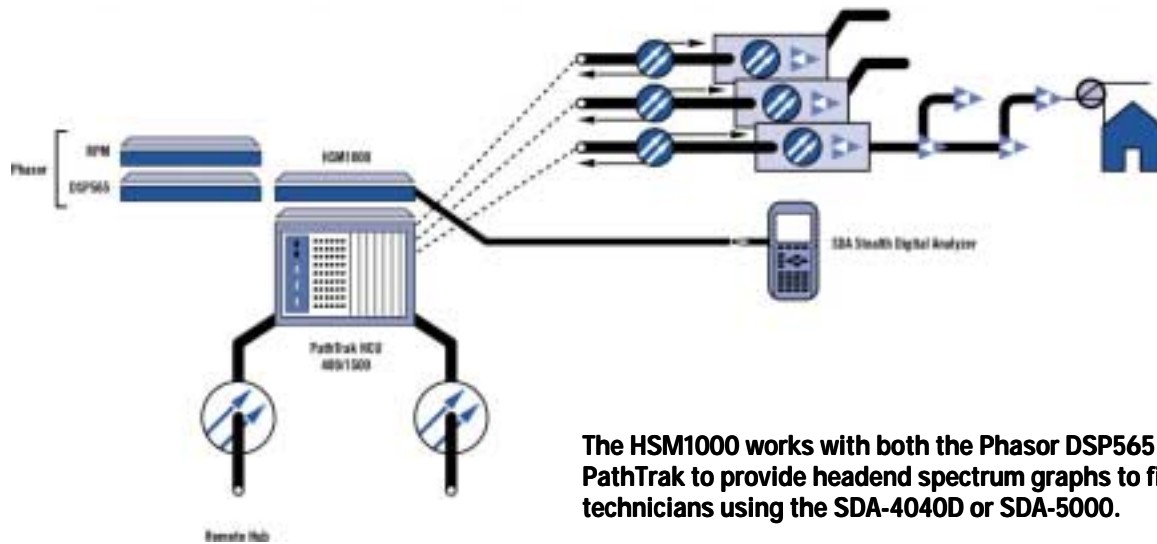


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Power Requirements

Frequency / Power: 47 to 440 Hz / ~10 Watts
Input Voltage: 85 to 264 VAC
Input Current: 1.2 A @ 100 VAC; 0.5A @ 265 VAC
Fuse: 1.25A, 250V 5x20mm SLO-BLO (2 required)
Input Connector: Integral Combination IEC connector and fuse holder
PathTrak RF modem interface:RS-232 compatible
RF Modem / Stealth protocol: Proprietary RF FSK modem



The HSM1000 works with both the Phasor DSP565 and PathTrak to provide headend spectrum graphs to field technicians using the SDA-4040D or SDA-5000.

Contact Information

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www.acterna.com

