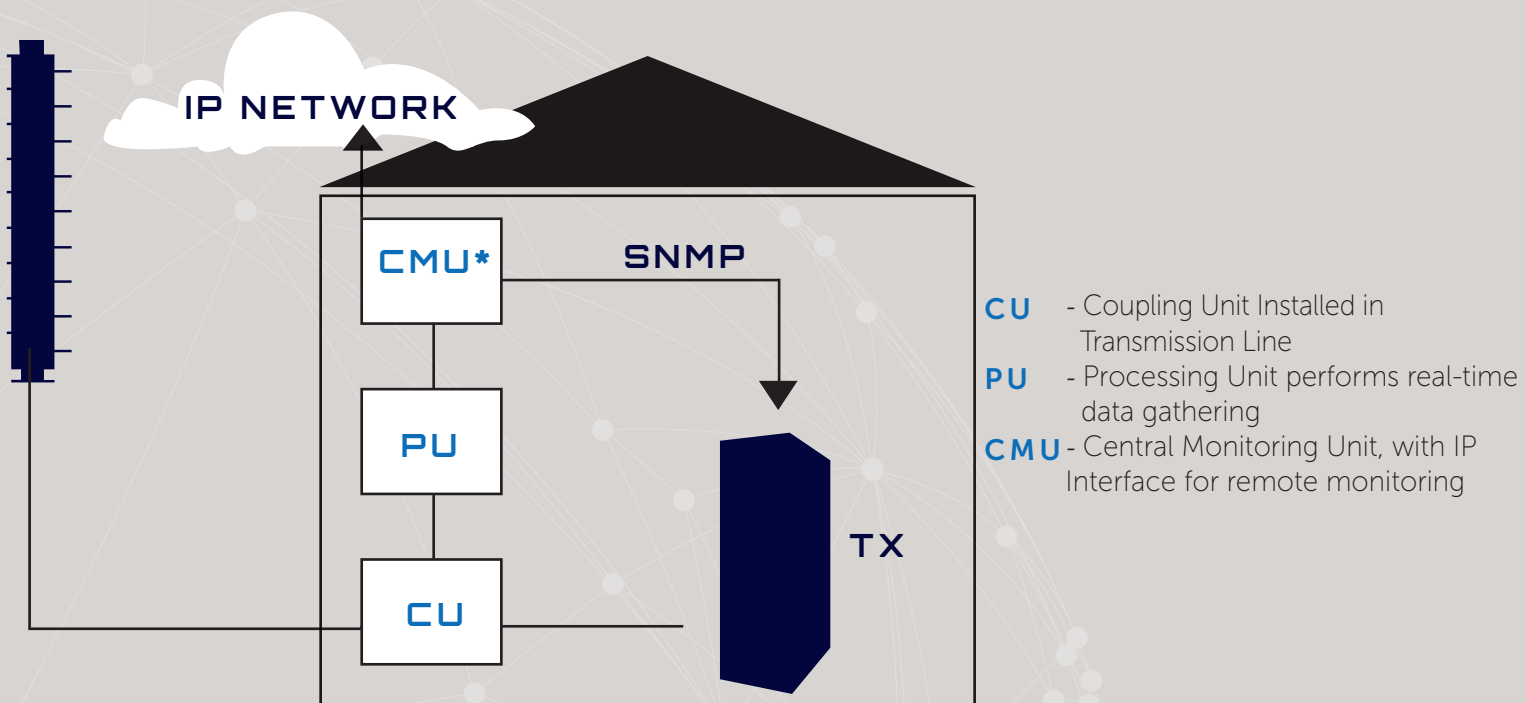


RFHAWKEYE is the first IP-connected system that delivers real-time data to effectively monitor transmission line, the unsung workhorse of a broadcast system. Undetected degradation of this vital component can be devastating, leading to extensive damage and time off-air.

- Continuous remote real-time, time-domain system measurement and recording at full-power.
- Detects, locates and warns of VSWR changes or arcing in the transmission line (TL).
- Three main elements - Central Monitoring Unit (CMU), Processing Unit (PU) and Coupling Unit (CU).
- Multiple TL runs can be monitored with one CMU. Each TL needs PU and CU.
- Compatible with any modulation scheme: ATSC 1.0, ATSC 3.0, DVBT, etc...



\* Additional inputs to the CMU are available to monitor, for example, forward and reflected power, building alarms and temperature alarms.

## RFHawkeye

Return Loss Sensitivity	> 1 dB
Detectable Return Loss	< -45 dB
Accuracy of Fault Location	± 8 in / 200 mm
Out-of-band Emission	< -110 dBc ; per FCC §73.622 (h)
Arc Detection	> 100 µs
Maximum Distance from PU to CU	21 ft / 7 m

## Central Monitoring Unit (CMU)

Display	5 inch touch screen	
Network Input	Ethernet (LAN) or Mobile Data	
Communication Protocol	SNMP	
Number of RF inputs 50-860MHz	Option 42	4 or 2 pairs for VSWR /Return Loss
	Option 41	6 or 3 pairs for VSWR /Return Loss
	Option 40	8 or 4 pairs for VSWR /Return Loss
RF Input Conector	SMA Female, 50-860 MHz	
Number of Sensor and Temperature Inputs	Option 42	2 sensors or 4 Temperature detectors
	Option 41	1 sensor or 2 Temperature detectors
	Option 40	none
Sensor Connector	Proprietary	
Power Supply	90-264 V AC, 47-63 Hz - IEC/ 16W	
Weight	10.4lbs / 4.7kg	
Dimensions	2 RU / H 3.5 x W 19 x D 8.6" / H 89 x W 482 x D 218 mm	

## Processing Unit (PU)

RF Connector	2 x N - female / 50 ohm
Frequency Range	470 - 700 MHz
Safety	EN60950-1
LAN Interface	RJ-45 / Ethernet / IP interface
Power Supply (redundant)	2 x 90-264V AC, 47-63 Hz - IEC/ 30W
Dimension	1 RU / H 1.75 x W 19 x D 8.6" / H 45 x W 482 x D 218 mm
Weight	5.95 lbs / 2.7 kg
Environmental Temperature	32 to 113°F / 0 to 45°C

## Coupler Unit (CU)

RF Connector	2 X N - female / 50ohm		
Frequency Range	Channelized		
Power Rating	Same as equivalent rigid line		
Return Loss / VSWR	> 35 dB / < 1.036:1		
Material	Rigid Line: copper; Flange: Brass		
Environmental Temperature	32°F to +113°F / 0°C to +45°C		
Dimensions	3-1/8" - 50 ohm*	15.75" / 400 mm	9.5 lbs / 4.3 kg
	4-1/16" - 50 ohm*	15.75" / 400 mm	14.0 lbs / 6.4 kg
	6-1/8" - 50 ohm*	15.75" / 400 mm	27.0 lbs / 12.2 kg
	6-1/8" - 75 ohm*	15.75" / 400 mm	26.0 lbs / 11.8 kg
	7-3/16" - 75 ohm*	15.75" / 400 mm	32.0 lbs / 14.5 kg
	8-3/16" - 75 ohm*	15.75" / 400 mm	32.0 lbs / 14.5 kg

\* Available for EHT version