

IntelliSENSE

Monitoring System



Complete monitoring solution for the entire transmit antenna network



Truly channelized design for high accuracy monitoring



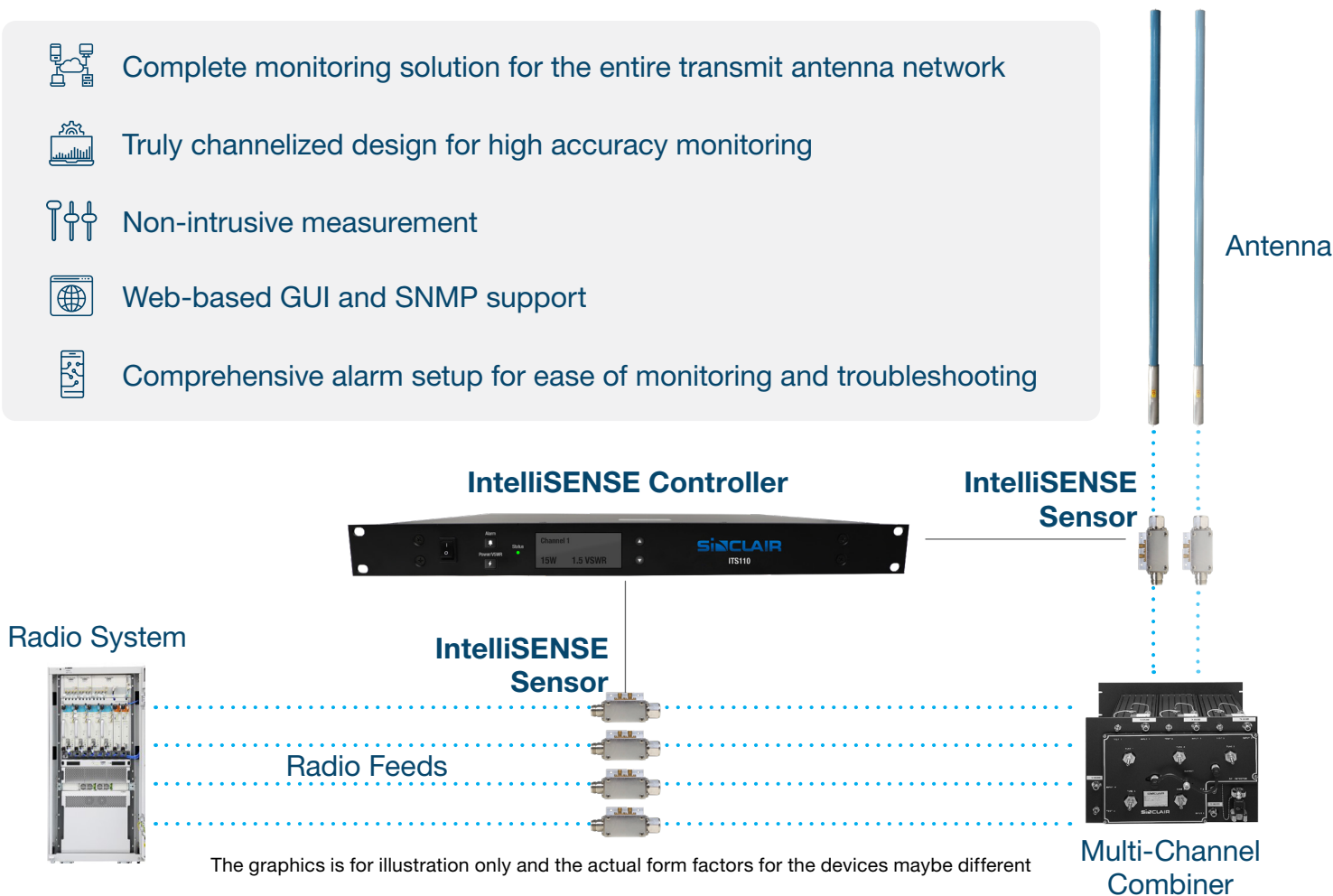
Non-intrusive measurement



Web-based GUI and SNMP support



Comprehensive alarm setup for ease of monitoring and troubleshooting



PERFORMANCE MONITORING

- Antenna VSWR
- Antenna forward power
- Antenna individual Tx forward power
- Antenna individual Tx VSWR
- Individual Tx CH power
- Individual Tx CH frequency
- Individual Tx CH return loss
- Individual Tx CH insertion loss

SECURED REMOTE ACCESS

- User friendly web-based GUI
- SNMP support
- Secure user administration with RBAC (role based access control) to manage users and their access rights
- Event log

EASY EXPANSION

- Native multi system support
- Smooth expansion
- License-based activation

IntelliSENSE System Monitoring

TECHNICAL SPECIFICATIONS

Electrical Specifications - Monitoring Control Unit

Frequency Range	70-4000 MHz
Bandwidth	0.05-56 MHz
Connector RF	SMA
Input Rx Power	20 Max dBm
Impedance	50 Ohm
Dynamic Range Rx	60dB
Rx Power Accuracy	0.1dBm
Rx Frequency Resolution	0.2 kHz
Rx Noise	0.02Max, 0.01 Typical dBFS
Rx Ch Monitored	8 paired for VSWR, 16 single PWR
Rx Ch Monitor Speed	40 – 2000 Ch/s
Power Supply	110-230V AC

Electrical Specifications - Monitoring Control Unit

Width	483 mm (19 in)
Depth	254 mm (10 in)
Length/ Height	44 mm (1.75 in)
Weight	2 kg (4.5 lbs)
Working Temperature	-20 to +60 °C (-22 to +140°F)
Communication Ports	1*USB-mini-B; 1* RJ-45

Mechanical Specifications - Power Sensor

Sensor ¹	ITS-PS-2307- NMNF	ITS-PS-407- NMNF
Frequency Range	108-512 MHz	746-960 MHz
Input/output Connector	N-male/N-female	
VSWR	1.25:1	
Insertion Loss (Max)	0.2 dB	
Directional Isolation	25 dB	
Coupling	40 dB ± 1.5dB	
Maximum Power handling	300W	
Monitor outputs connectors	SMA Female	
PIM	-150 dBc	

Mechanical Specifications – Power sensor

Width	60 mm (2.36 in)
Depth	100 mm (3.94 in)
Length/ Height	65 mm (2.56 in)
Weight	0.5 kg (1.1lbs)

Monitoring Features

Average Antenna VSWR
Average Antenna Forward Power
SNMP Support
Individual Tx Channel Frequency ²
Individual Tx Channel Power ²
Individual Tx Channel Return Loss ²
Antenna Individual- channel VSWR
Individual Channel Insertion Loss
Individual Channel
Forward Power to Antenna
User/alarm Management
Antenna Individual VSWR Alarm
Individual Tx Return Loss Alarm
Individual Tx Power Alarm
Individual Tx Insertion Loss Alarm
Spectrum Analysis ³

Notes:

1. Sensors higher than 1GHz are available upon request
2. For individual Tx Channel features, a power sensor is required for each channel
3. Spectrum Analysis requires a dedicated antenna and a separate software license