

SmartX Site Converter



SmartX Migration Overview

SmartX migration solution will allow the gradual migration from an existing SmartZone™ system to an ASTRO® 25 integrated voice and data network. The SmartX migration solution provides an ASTRO 25 core master site that supports both Project 25 and SmartZone remote sites allowing a mix of P25 and SmartZone radios to operate on the network.

The SmartX migration path enables agencies to have a phased approach to achieving P25 interoperability, benefit from ASTRO 25 capabilities sooner, and gradually expand, upgrade or replace RF sites, consoles and subscribers to ASTRO 25 on a gradual schedule.

SmartZone Features & Equipment Re-use

SmartX allows users to retain important SmartZone features such as emergency call /alarm, push-to-talk ID to dispatchers and radio users, as well as many other critical SmartZone features.

While migrating to ASTRO 25, users continue to operate much of the SmartZone equipment such as the CENTRACOM™ Gold Elite console, QUANTAR™ stations. The existing site equipment such as the sites, towers, generators, and shelters can also be reused. Over time as the ASTRO 25 system evolves new G-series site equipment, MCC 7500 dispatch consoles and data capability, such as location, programming over the air and text messaging can be added.

SmartX Site Converter

The SmartX Site Converter provides the interface between the SmartZone system and the ASTRO 25 core. It translates SmartZone analog and digital audio into vocoded IP packetized audio, and then passes the audio on to the ASTRO 25 core. One SmartX Site Converter and Motorola S2500 router are required per SmartZone Simulcast subsystem and/or per SmartZone Intellirepeater site.

- Allows a gradual migration from SmartZone to ASTRO 25
- Maximizes the reuse of existing SmartZone equipment
- Requires maintenance of only one core master site
- Takes advantage of ASTRO 25 features earlier than with other migration types
- Retains important customer critical SmartZone features during migration
- Provides full interoperability among existing SmartZone users and ASTRO 25 radios and dispatch consoles

DATA SHEET

SmartX SITE CONVERTER

MOUNTING OPTION: EIA 19" rack mount

SIZE AND WEIGHT

Height	Width	Depth	Weight
1.75 inches	16.9 inches	12.3 inches	3.6 lbs
44.5 millimeters	430 millimeters	312 millimeters	1.6 kg

POWER CONSUMPTION AND THERMAL

Power Input	Thermal Output
0.4 Amps at 120VAC	171 BTUs/hour
0.2 Amps at 240VAC	

SMARTZONE SITE INTERFACE

	T1	CEPT
Link Bit Rate	1.544 Mbps	2.048 Mbps
Line Coding	Transparent B8ZS	Transparent HDB3
Framing	D4 ESF	W/CRC-4
Frame Type	Only "a" frame type is supported	Only "a" frame type is supported
Channel Data Range	64 Kbps 56 Kbps	64 Kbps 56 Kbps
Audio Coding	A-Law u-law	A-Law u-law
Termination	100 Ohm (DS1)	120 Ohm



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