



Common Operating Radio Engine (CORE)

The Power You Need Today, Upgradeable for Tomorrow

Upgradeable Future-Proof Solution

CORE protects your investment through use of an expandable, upgradeable, and enhanceable architecture.

- Components and Parts Can Be Exchanged Without Modifying Unit
- Onsite or Remote Software Upgradeable
- Add More Capabilities if Needed
- 3 Onboard Servers including Client Use Server for Software Apps and Data

Deployable Ready for the Real World

CORE is ready for real world situations and worst-case scenarios, whether on, or off the grid.

- Setup in Under 15 Minutes
- Push-Button Setup with Minimal Requirements
- Mobile: Deploy from Small SUV
- Connectivity via Cellular, Fiber, Satellite, Microwave or Any Standard Network Connection
- Use daily as a business continuity solution for voice and data

Cost Effective Best Value in Industry

With best-in-industry support and capabilities only found in more expensive systems, CORE delivers unrivaled value.

- Best-in-Industry Support
- Future-Proof
- Minimal Training Requirements
- Cost-Based Routing for Network Services
- High Number of Voice and Data Channels for Cost, Compared to Competing Systems
- Integrates with Existing Systems, Networks, and Equipment

Configurable Tailored to the Customer

Every CORE system is custom-built and tailored to the customer's current and future needs.

- Server-Room Configurations
- In-Vehicle Configurations
- Mobile Command Center Configurations
- Man-Portable Configurations
- Designed and configured for optimal ease of use

Connect Every Time, Everywhere.

Take the Office to the Field

with full office functionality through an enterprise PBX.



Rapid Deployment and Ease of Use

through a push button software application and PBX commands.



Seamlessly Connect and Encrypt

disparate radio, cellular (voice and text), and landline networks.



Never Drop a Call

with bonded cellular and seamless transition between towers and carriers.



Connect Your Agency's Applications

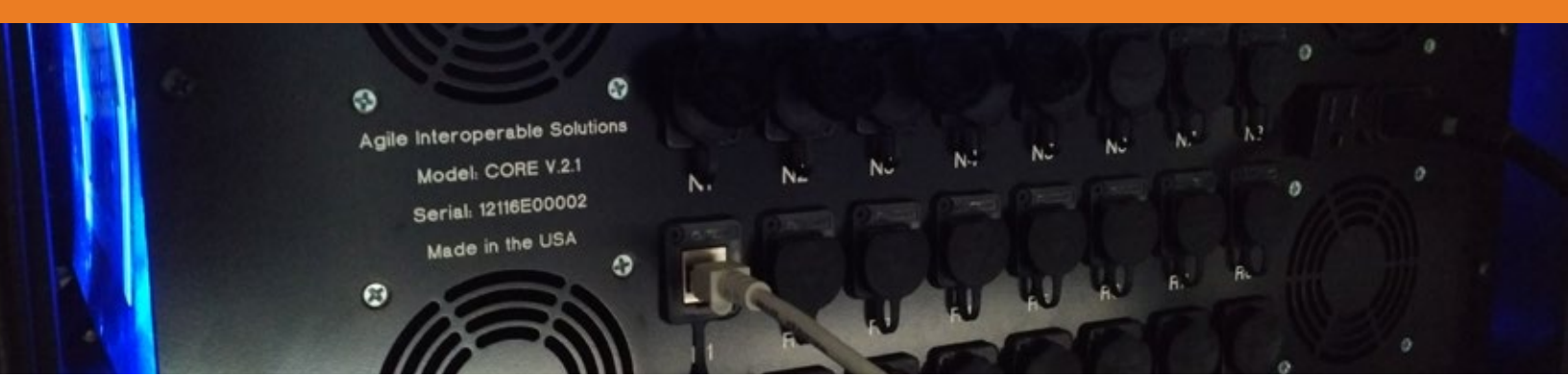
with CORE's onboard server and three layers of local Wi-Fi.



A Customizable Solution

to meet the full spectrum of operational requirements.





Our Focus is Customer Success

AIS and our flagship product CORE were born out of our own real-world need to rapidly re-establish critical business communications in the aftermath of a hurricane which crippled local infrastructure. With a deep understanding of communications technology, extensive operational experience, and a passionate commitment to supporting our customers, AIS is able to deliver best-in-class interoperable solutions.



Seamless Connectivity

AIS provides interoperable communications solutions that enable public and private organizations to achieve seamless connectivity, even in the most challenging environments.

Industry-Leading Support

From sales through deployment and operation, the AIS team provides the in-depth training, service, and support necessary to ensure our customer's success in real-world operations.

Tailored Solutions

AIS delivers solutions—our engineers design each system to meet our customer's most demanding and specific requirements.

CORE Specifications

Power

AC 110/220
DC 12V
1200 watts

Height

20.4"

Width

26.5"

Length

43" with doors on

Weight

<100 lb

Temperature Range

-18° C min
40° C max
Active Thermal Control

Frequency

GSM all Band 2G 3G 4G
LTE
UMTS
BAND 14 LTE (FirstNet)
Multi carrier bonded LTE

Wi-Fi

802.11 a/b/g/n/ac
PiP, PiMP, Mesh

Encryption

ZRTP media encryption
256bit+ data encryption
FIPS compliant

Client Application Server

(standard build)
Windows Server 2016
1 TB capacity
2 x 14 core Xeon Processors
64GB RAM

Channels

16 cellular/LTE
8-30 radio networks
Up to 1000 extensions
2 PRI/BRI
32 FXS/FXO

SMS throughput

100 sms/second

Onboard SIM capacity

60 sims

Virtual SIM Capacity

24,400 sims at centerpoint

User Assignable DID

No limit

VPN

Wide area WAN
Encrypted
Compression
Rain mode

Communications Protocols

Audio: G711u/a, GSM, G719, G722, G723, G726, G729, SPEEX, ADPCM, ILBC, SIREN7/14, SILK, SLIN, LPC10, OPUS

Video: H264, MPEG4, VP8, H263/p, H261

Microsoft Lync compatible (WRTC)
SMS: SMPP, XMPP

Radio: VHF, UHF, HF, 700MHz, 800MHz, 900MHz, Trunked, p25, sideband, (all analog/digital with IP interface)

