



# SMARTMESH IA-510™ SmartStart Kit

Industrial

**PRODUCT DESCRIPTION** > Dust Networks' IA-510 SmartStart™ Kit includes everything needed to design, develop, test, and roll out new sensor networking solutions. The SmartStart Kit includes:

- Hardware – a network manager and 15 mote modules, 10 of which are equipped with a general purpose microprocessor to enable network formation and operation, RF certified for FCC, IC, and CE
- Network – a preconfigured SmartMesh IA-510 intelligent network with GUI and dynamic bandwidth to demonstrate multiple processes
- Software – libraries, code samples, sample command definitions and utilities to accelerate development
- Dust Networks' documentation package – helps speed development, testing, and device certification

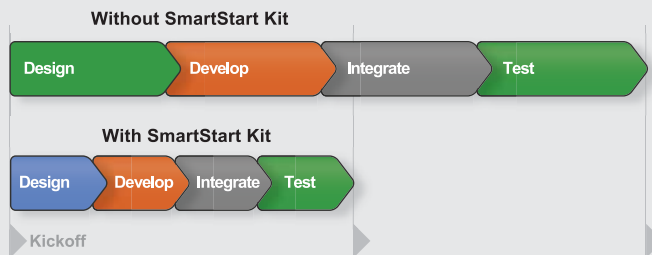
OEMs using the Dust Networks SmartStart Kit can dramatically shorten development time—often going from concept to product in half the time typically required.

## KEY BENEFITS

- ❑ Easy-to-use, easy to deploy wireless sensor networking solution
- ❑ Ultra low-power performance coupled with carrier class reliability
- ❑ Extensive documentation simplifies mote integration into sensor devices
- ❑ Evaluation module includes general purpose microprocessor to enable network formation and operation
- ❑ Software libraries, code samples and development utilities accelerate software development

## KIT CONTENTS

- ❑ D2511 packaged manager
- ❑ 10 EV2510 evaluation modules
- ❑ 5 DV2510 development modules
- ❑ Sample application executable and source C code interface libraries
- ❑ Extensive documentation, including application notes, user guides, datasheets, and an integration guide



**ABOUT SMARTMESH IA-510** > Dust Networks' SmartMesh IA-510 is an industry-leading wireless networking solution designed for critical monitoring and control applications. IA-510 serves a wide range of applications from renewable energy generation, such as solar and wind power, to factory machine health monitoring and data center HVAC energy management. The SmartMesh IA-510 system delivers dynamic network optimization and intelligent routing to achieve unsurpassed levels of wireless network scalability, system-wide reliability and low latency, coupled with industrial-class security. Additionally, ultra-low power operation permits even greater deployment flexibility for wire-free applications.

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## KIT CONTENTS

DESCRIPTION	QTY	IA-510 EVALUATION KIT	IA-510 DEVELOPMENT KIT	IA-510 SMARTSTART KIT
Model		KT251002	DEV251002	DEVKT251002
Evaluation Kit:				
D2511 packaged manager (mesh networking manager)	1	•	•	•
EV2510 evaluation modules (mesh networking module)	10	•		•
DV2510 modules (signal breakout modules for development)	5		•	•
Evaluation GUI (includes Mesh Topology Viewer and Data Transport Utility)	1	•		•
IA-510 Evaluation Kit Guide	1	•		•
LVTTTL voltage converter	3		•	•
IA-510 Application Development Libraries:				
Serial handshake libraries			•	•
HDLC packet generation libraries			•	•
API library			•	•
IA-510 Software Utilities:				
Manager API command generator			•	•
Mote API command generator			•	•
User Documentation:				
IA-510 Development Kit Quick Start Guide	1		•	•
020-0038 DN2510 Datasheet	1		•	•
020-0037 M2510 Datasheet	1		•	•
020-0039 PM2511 Datasheet	1		•	•
040-0075 D2511 Manager User Guide	1		•	•
040-0071 DN2510 Integration Guide	1		•	•
040-0070 M2510 Integration Guide	1		•	•
040-0072 PM2511 Integration Guide	1		•	•
040-0067 IA-510 Mote Serial API Guide	1		•	•
040-0069 IA-510 Manager XML API Guide	1		•	•
040-0068 IA-510 Manager Serial API Guide	1		•	•
040-0074 IA-510 Command Line Interface Guide	1		•	•
040-0073 IA-510 Admin Toolset Guide	1		•	•
040-0058 DN2510 Marking Specification	1		•	•
040-0082 IA-510 Integrator's Guide	1		•	•

## IA-510 EVALUATION KIT

- ⊗ Demonstrate wireless sensor networking
- ⊗ Evaluate SmartMesh IA-510 network performance

## IA-510 APPLICATION DEVELOPMENT LIBRARIES

- ⊗ Sample application source code
- ⊗ Reusable software libraries and drivers

## IA-510 SOFTWARE UTILITIES

- ⊗ Software developer utilities to exercise manager and mote APIs

## IA-510 USER DOCUMENTATION

- ⊗ Hardware integration guides to speed OEM integration of Dust Networks' pre-engineered RF solution
- ⊗ Software API guides provide details to Dust's rich and flexible functionality without complex coding

