



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

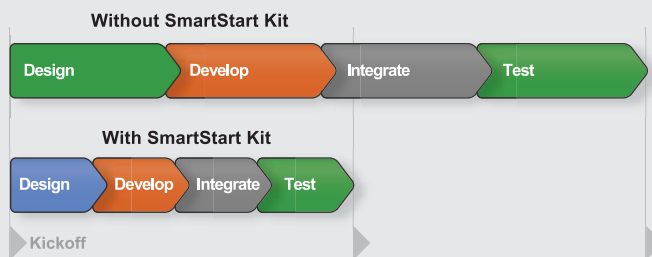
OEMs using the Dust Networks SmartStart Kit can dramatically shorten development time—often going from concept to product in half the time typically required.

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

