

Dusty Module (Smartmesh IP)

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Smartmesh IP , from 14,99 USD for large volumes.

The Dusty module is a certified IoT module with on-board PCB antenna or U.FL connector based on the Analog Devices LTC5800-IPM system on chip, a highly integrated low power radio design with an ARM Cortex-M3 32-bit microprocessor running Smartmesh IP embedded networking stack.

The Dusty's behaviour in a Smartmesh IP network is determined by the choice of Smartmesh IP network software stack loaded:

- Wireless Mote,
- EManager,
- Access Point Mote™.



MAIN FEATURES

1. Module with PCB antenna or U.FL connector for external antenna
2. Integrates 2.4 GHz, IEEE 802.15.4e System-on-Chip, complete with Embedded Smartmesh Networking Software
3. 99.999% Network Reliability in the Most Challenging RF Environments
4. Sub 50µA Routing Nodes
5. Serves either as a Wireless Mote, EManager or as Access Point Mote in a Smartmesh IP network
6. Compliant with 6LoWPAN Internet Protocol (IP) and IEEE 802.15.4e Standards

QUICK SPECIFICATION

1. Supply Voltage : 3.3V
2. Interface : USART / ADC / SPI / I2C /
3. Dimensions : 16 x 27.25 mm
4. Industry-Leading Low Power Radio Technology
5. Consume : 4,5mA to Receive a Packet
6. Consume : 9,7mA to Transmit at 8dBm
7. ETSI, RoHS and FCC Certification
8. Micrium µCOS-II Real Time Operating System based

SPECIFICATION

Supply Voltage :	3,3V
Receiver Sensitivity	-93 dBm
Output Power	0 to 8 dBm
Working Temperature	-40°C to 85°C
Consumption	
Active	1.3 mA
Deep Sleep	0.8 uA
Transmitting	9.9m mA @ 8 dBm
Receiving	4.5 mA
Certifications	
FCC	FCC part 15 modular qualification - FCC ID: 2AL5T
CE SmartMesh IP	ETSI EN 301 489-1 V2.1.1 (Europe) ETSI EN 301 489-17 V3.1.1 (Europe) EN 61000-3-2:2014 (Europe) EN 61000-3-3:2013 (Europe) ETSI EN 300 328 V2.1.1 (Europe)
ROSH	RoSH RoHS 2011/65/EU

For more information please visit
<http://midatronics.com/Modules/Dusty>

ORDERING INFORMATION

Part Number:	Description:
ITM-DYPA-B-02	Dusty Module with PCB Antenna
ITM-DYUF-B-02	Dusty Module with UFL connector

