

# YELLOWFIN-OEM

MOBILE WiMAX RECEIVER MODULE & SOFTWARE DEVELOPER'S KIT

WiMAX PACKET ANALYSIS  
CELL ID  
SEGMENT INFO  
MULTIPATH  
CINR

RF SPECTRUM ANALYSIS  
2.0 - 5.9 GHz



## WiMAX RECEIVER

**YELLOWFIN™-OEM** is a WiMAX developer's kit that includes a calibrated receiver and SDK. The calibrated receiver measures between 2.0 - 5.9 GHz covering such popular wireless bands including Wi-Fi, Wi-MAX, ISM, Public Safety, Bluetooth and more. **YELLOWFIN™-OEM** sweeps the IEEE 802.16e standard and demodulates RSSI measurements for Cell ID & Segment information, multipath analysis and CINR (Carrier-to-Interference-plus-Noise-Ratios) on a preamble basis. Berkeley's receiver technology measures RSSI to within  $\pm 1.5$  dB of any nearby WiMAX packet on or off your network. **YELLOWFIN™-OEM** module contains (1) Ethernet 10/100 Mbit port and (1) mini USB port for PC connectivity, (1) standard SMA female antenna connection, an internal 12-channel/satellite GPS receiver and necessary DLL software and documentation.

## SOFTWARE DEVELOPER'S KIT

**YELLOWFIN™-OEM** includes a DLL (Dynamic Link Library) to get any developer up and running with their own custom software development. The **YELLOWFIN™-OEM** kit includes all the necessary components for creating customizable Mobile WiMAX surveys, interference detection and packet traffic analysis.



Hard case with all accessories



DLL software & documentation

Built-in 12-channel GPS receiver



SMA female antenna connection

mini USB port



Ethernet 10/100 Mbit connection

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TOLL FREE 1-888-737-4287

Tel: +1 732-548-3737

Fax: (732) 548-3404

www.bvsystems.com

email: sales@bvsystems.com

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# YELLOWFIN-OEM

**MOBILE WIMAX RECEIVER MODULE & SOFTWARE CODER'S KIT**

## DEMODULATOR SPECIFICATIONS

BANDS SUPPORTED	2.3 - 3.8 GHz
RF SENSITIVITY (Wide Band)	-20 to -90 dBm
ID CELL & SEGMENT	
RSSI (CHANNEL)	-20 to -80 dBm
CORRELATED MULTIPATH MEASUREMENTS	0 to -10 dBm
CINR	0 to +20 dB

## SPECTRUM ANALYZER SPECIFICATIONS

BANDS SUPPORTED	2.0 - 5.9 GHz
AVERAGE NOISE FLOOR (NO INPUT)	< -100 dBm (reference level -70 dBm, resolution bandwidth = 50 kHz)
DYNAMIC RANGE	> 40 dB
LEVEL ACCURACY	$\pm 1.5$ dB (25° C)
MAX INPUT (SAFE)	+ 0 dB
MAX INPUT (NO SATURATION)	- 20 dB
REFERENCE LEVEL	-20 to -70 dBm (10 dB steps)

## TRIGGERING

USER CONTROL	auto or manual
PACKET/INTERFERENCE TRIGGER	trigger analyzer when input power $\geq$ threshold (20 MHz span)
TRIGGER THRESHOLD	user settable in dBm
TRIGGER DELAY	user settable in mS

## GENERAL SPECIFICATIONS

INTERNAL GPS RECEIVER	12-channel GPS receiver
INPUT CONNECTOR	SMA Female, 50 Ohm
POWER	Included AC to DC transformer

## PHYSICAL SPECIFICATIONS

WEIGHT	2 lbs.
DIMENSIONS	3"H x 4"W x 8"L (water resistant, high impact ABS plastic case)

The YELLOWFIN®-OEM Kit includes everything you'll need to develop 802.16e tools for powerful, custom WiMAX site surveys.

