**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 ±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 DEVELOPERS’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.
### 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 CINR**: 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**: ± 1.5 dB (25º 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 > 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)

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