YELLOWFIN™

Mobile WiMAX Packet/Spectrum Analyzer

YELLOWFIN™ WiMAX analyzer is shown with optional Direction Finding Antenna installed.

YELLOWFIN™ Mobile WiMAX analyzer is the world's first truly portable calibrated, demodulating WiMAX test receiver. This handheld unit utilizes the Samsung Q1 Ultra tablet UMPC as an interface in conjunction with Berkeley's precision receiver technology for complete spectrum analysis as well as WiMAX packet demodulation. The receiver sweeps the 2.0 - 5.9 GHz spectrums to within ±1.5 dB accuracy. YELLOWFIN™ performs full spectrum analysis allowing RF engineers to see the whole wireless network picture. Features include power triggers, peak hold/search, markers and multiple waveform traces. WiMAX 802.16e packet analysis includes RSSI measurements, Cell ID & Segment information, multipath analysis and CINR (Carrier-to-Interference-plus-Noise-Ratios) on a preamble basis. The optional DF (Direction Finding) Antenna allows engineers to pinpoint sources of WiMAX interference, rogue base stations and even nearby hackers. An internal 12-channel/satellite GPS receiver allows for geo-coded site surveys and drive-studies using optional mapping software.

YellowFin™ comes shipped in this protective hard carrying case with handle and wheels.

WiMAX

PACKET ANALYSIS

SPECTRUM ANALYSIS

DIRECTION FINDING

INTERFERENCE DETECTION

Call us today for more information:
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Berkeley Varitronics Systems®
Clarifying RF
Providing wireless solutions for over 35 years.

YELLOWFIN™

Tablet PC WiMAX Packet/Spectrum Analyzer

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 dB
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 (25° C)
MAX INPUT (SAFE)	+ 0 dBm
MAX INPUT (NO SATURATION)	- 20 dBm
REFERENCE LEVEL	-20 to -70 dBm (10 dB steps)
DISPLAY (Tablet UMPC)	see Samsung Q1 specifications
OPERATING SYSTEM (Tablet UMPC)	Windows® XP

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/satellite GPS receiver
INPUT CONNECTOR	SMA Female, 50 Ohm
POWER	Li-PO, AC or DC
RUNTIME INTERNAL BATTERY	> 3 hours
RECHARGE TIME	< 3 hours

PHYSICAL SPECIFICATIONS

WEIGHT	5 lbs.
DIMENSIONS	1.5"H x 7.5"W x 5"L (water resistant, high impact ABS plastic case)

Tablet Specifications

Manufacturer:	Samsung (Q1 Ultra)
CPU:	Intel Pentium 1.33 GHz
LCD:	7" WVGA
Operating System:	Windows XP UMPC Tablet Edition
VRAM:	Shared
Memory:	1GB DDR 400
HDD:	80 GB (4200 RPM)
ODD:	None
Wired:	100MB LAN
Built-In Wireless:	802.11g+BT
Physical Specifications:	
Weight:	3 lb.
Dimensions:	1"H x 5"W x 9"L

Samsung's Q1 UMPC tablet serves as the touch-screen interface for the Yellowjacket-TABLET receiver.

Berkeley's calibrated receiver module is accurate to within ± 1.5 dB, contains a GPS receiver and rechargeable battery system.

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