

### 3<sup>rd</sup> Generation Test Tool



**TEMS Investigation GSM** is the leading real-time air interface test tool for GSM and GPRS network diagnostics. Designed for senior RF engineers and network specialists, TEMS Investigation GSM can be used during all stages of a network's life cycle. The tool allows operators to monitor voice channels as well as data transfer over GPRS, CSD, and HSCSD. It now supports in-building positioning of network data. It also measures radio parameters, assesses speech quality, and decodes air interface messages efficiently and easily .

### E1 Service Tester (EST-125)

This system is a multipurpose field service tester designed for commissioning, maintenance, and troubleshooting on E1 PCM circuits. It can perform a wide variety of tests, including: framed and unframed monitoring, framed and unframed end-to-end testing, drop and insert, channel associated signaling monitoring, Round Trip Delay measurement and repeated BERT.



#### Features & Benefits

- Provides a scalable test solution for E1 and Data testing applications, supported by a large range of software options for E1 services (Frame Relay, GSM) and sub rate multiplexing system(X.50, HCM, V.110) testing
- Allows for rapid evaluation of circuits through an intuitive user interface with an auto configure feature and large, clear results screens
- Employs a full set of physical layer tests for E1 balanced and unbalanced circuits including BERT, VF, Round Trip Delay, Signal Level, Pulse Shape and Jitter
- Provides standard options for Quality of Service (QoS) measurement to ITU-G.821, G.826 and M.2100 recommendations
- Marks clear distinctions between bit errors and bit slits in QoS testing through the patented Gelbright synchronization method



## Protocol Analyzer PA-7

PA-7 has designed for considering, observation, recording and saving information related to links that worked with CCS#7 signaling.

System hardware is designed as modular that connectable links can easily extendable.

PA-7 system software is run on windows (98/me/2000/XP) and system hardware & software is designed as PC based.

This system is able to analysis communicated messages according both of two standards: (white book and blue book) and all of the signaling units is recognized and show according below protocols: TUP, ISUP, TCAP, SCCP, OMAP, MAP, SNM, SNT, MTP, INAP, CAS, MF, V5.1 & V5.2



## Cable SHARK P3

The New Consultronics CableSHARKplus is used for the qualification of twisted pair cable in the local loop. It analyzes DSL service deliveries at the level where problems really occur-at the physical layer. With its 2 MHz bandwidth, the CableSHARKplus can test a local loop for just about any service it will carry such as: ADSL, G.Lite, SHDSL, Long-Reach DSL, HDSL, HDSL2, T1, DDS, BRI ISDN, and PRI ISDN.



## Optical Power Meter (MT9081D)

This system is provided with the functions that are required to perform diagnosis of optical fibers fault on optical fiber lines, specifically FTTH lines.



MT9081D showing OTDR field Protection ends

### Features & Benefits

- Four test functions in one mainframe; OTDR, Optical power meter, light source and visible fault locator, reducing field equipment needs
- 1000 trace internal memory with external USB memory stick trace storage, offering easy trace transfer to field PC
- Industry leading 3 ns pulse offers unsurpassed dead zone performance; connectors can be identified typically less than 0.8 m apart and usable trace backscatter appears within a few meters after, both invaluable for identifying the true nature of near end fiber faults
- Optional 10/100/1000 Ethernet connectivity testing
- 1310/1490/1550 nm triple wavelength MT9081G available for FTTH
- Special 1650 nm option also available for live, in-service PON testing from customer site
- A true compact and high performance field OTDR weighing less than 2.2kg

