The ATX2000 ATSC-M/H Multiplex Signal Generator is specifically designed and developed for the ATSC-M/H standard which is a new mobile broadcasting standard in the United States. The ATX2000 provides a variable broadcasting simulation test environment and can be tailored to specific situations using a comprehensive set of parameters and multiplexing function controls. It is the most advanced ATSC-M/H solution available today.

This all-in-one ATSC-M/H Multiplex Signal Generator offers a patented, easy-to-use interface, and high-quality RF and ASI outputs in a stable, portable platform. The ATX2000 will enable engineers to reduce time and development cost as well as enable them to bring products to market quicker to meet the needs of the emerging mobile broadcasting market.

**APPLICATIONS**
- ATSC-M/H Broadcast Engineering Simulation
- Research and Development of ATSC-M/H Receivers
- ATSC-M/H Product Manufacturing & Signal Centers
- Precise Demonstration of ATSC-M/H Chipsets and High Performance Receivers
- ATSC-M/H Chipset H/W & S/W Development
- ATSC-M/H Middleware Development

**KEY FEATURES**
- Modulation: ATSC-M/H (8-VSB)
- Real-time Multiplex function for Main Stream, Mobile A/V, Data, and ESG
- Supports all Modes in the ATSC-M/H standard
- Information editing function of TPC, FIC, Signaling Sections (SMT, GAT, SLT, CIT)
- Multiplexed TS Capture & Save function
- Plays captured ATSC-M/H TS
- Live ATSC-M/H TS Playing from External ATSC-M/H MUX
- ASI Output support for testing an External ATSC-M/H Exciter
- Multiplexer-centered, Easy-to-Use Interface
- Multiplexer Status Monitoring
- Analog IQ Output support for AWGN & Fading Test
- Live Input support
  - Main Stream (ASI)
  - Mobile A/V, DATA, ESG (Ethernet)
**SPECIFICATIONS**

**ATX2000 ATSC-M/H Multiplex Signal Generator**

**GENERAL**
- RF Upconverter: 50 to 870 MHz (Adjustable)
- Power Level: -110 to 0 dBm (Adjustable)
- Power Supply: 100 to 250 VAC, 50/60 Hz
- Power Consumption: Less than 300W
- Storage Capacity: 160 GB or over
- Operating Temperature: 10° to 40° C
- Operating Humidity: 20 to 85% RH (No Condensation)
- Storage Temperature: -40° to +70° C / 20 to 85% RH
- Operating Environment: Indoor
- Over-voltage Category: II
- Pollution Degree: 2
- Dimensions: 330.5 (W) x 209 (H) x 377.5 (D) mm
- Weight: Approx. 13Kg (Without Options)

**RF SPECIFICATIONS**
- Output Connector: N Type
- RF Output Frequency: 50 to 870 MHz (VHF/UHF)
- RF Frequency Resolution: 1 Hz
- Frequency Accuracy: 3 x 10^-6 / 25° C
- RF Power Level: -110 to 0 dBm
- RF Level Resolution: 0.1dB steps
- RF Level Accuracy: ±0.5 dB relative to the level at 18-33°C
- RF Impedance: 50 Ω

**MODULAR SPECIFICATIONS**
- Broadcasting system
- Digital Terrestrial TV: ATSC-M/H
- Transmission Parameter
- Modulation: 8-VSB
- RS Coding: RS (207,187) (Systematic/ Non-Systematic)

**INTERFACE SPECIFICATIONS**
- ASI In/Out
  - Null Packet Insertion from H/W
  - Input bitrate: 0 to 214 Mbps
  - Packet Size: 188/204 Byte
- Analog I/Q Out
  - Internal Base-band I/Q
  - Output Connector Type: BNC
  - Output Impedance: 50 Ohm
  - Output Voltage: Max 300 mV
- LAN
  - Ethernet 10/100 Local Area Network

**OS SYSTEM**
- Embedded OS

**USER INTERFACE SYSTEM**
- 8.4 inch TFT color LCD (800 x 600)
- Touch Screen
- Control Panel – Button, Jog Shuttle

**EXTERNAL INTERFACE SYSTEM**
- USB Interface: USB HDD, USB Stick