



## FEATURES

- In-band addressable data scheme
- Four digit LED
- Baseband scrambling
- IPPV upgradable
- Downloadable parameters

The Motorola 5507 baseband addressable terminal incorporates important consumer features, such as volume control and VCR timer, into an attractive, easy to-use unit. The 5507 can be field-upgraded to impulse ordering using an optional ITM-111 telephone return module. More than 65,000 independent program/ event tags are available in any system. The 5507 descrambles Motorola's random dynamic baseband scrambling.

## SUBSCRIBER FEATURES

The 5507's four-digit LED readout improves subscriber understanding of the terminal's features and, functions, including remote volume control/mute, last channel recall and 82 programmable favorite channels.

The subscriber may lock out any channel at any time, blocking viewing until a parental access code is entered. In the event the code is compromised, it may be changed quickly with a simple procedure. The subscriber can easily program up to four events over a seven-day period using the remote control and the internal VCR timer. Another event can be programmed for "all" days when the subscriber wants to record the same program daily. The VCR timer can also be programmed to purchase impulse events.

The 5507 passes BTSC stereo to subscribers stereo television sets and VCRs.

## DOWNLOADABLE SYSTEM PARAMETERS

Advanced downloading capability gives addressable control over each terminal's parameters, key features and service authorizations. The built-in diagnostic capability provides valuable subscriber feedback on terminal functions, reducing truck rolls and offering excellent customer service via telephone diagnosis.

A channel map may be downloaded to the 5507 from the addressable control system. Once the map is downloaded, the terminal can show one channel on the LED display while tuning another, allowing local off-air signals to be offset in the cable system without subscriber confusion.

### **PAY CONTROL FLEXIBILITY**

Pay services can be controlled by channel or program. Thirty-two independent Channel Packages™, defined by the cable operator, are available in any system. Each package may include any combination of channels and subscribers may be authorized to receive any combination of the 32 packages.

### **OPERATING FEATURES**

The 5507 provides flexible barker channel capability. There are no terminal restrictions on the number of barker channels. The terminal retunes to a designated barker when the subscriber tunes an unauthorized service. Barker channels may also be used to advertise premium service, pay-per-view events or give instructions on how to purchase a pay-per-view event.

The unit shows diagnostic codes on its LED when error conditions occur, helping customer service personnel isolate and solve many problems over the phone. The unit is also equipped with a home channel. Each time the subscriber turns on the terminal it automatically tunes this channel, which is designated by the cable operator and traditionally provides previews related to coming pay-per-view programs and events.

## **Specifications**

### **Analog Set-Top Terminals Baseband Addressable Terminal[5507]**

<b>Input Frequency</b>	54-550 MHz
<b>HRC/IRC Frequency Assignments</b>	Downloaded
<b>Number of channels</b>	82 Channels per cable; one or two cables
<b>Dual A/B Cable Switching</b>	Optional A/B switch (field upgradable)
<b>A/B Cable Indicator</b>	LED in front display
<b>Input Video Level</b>	-6 dBmV to 15 dBmV
<b>Input Sound Level</b>	-13 to -17 dBc
<b>Video S/N</b>	49 dB weighted Min. at 6 dBmV
<b>Fine tuning</b>	Automatic
<b>AFT Capture Range</b>	+/- 300 kHz
<b>Output Frequency Accuracy</b>	+/- 150 kHz
<b>Return Loss:</b>	
<b>Input</b>	6 dB Min.
<b>Output</b>	10 dB Min.
<b>Spurious</b>	
<b>Output</b>	-57 dBc Max., 0 to 15 dBmV

<b>Cross Modulation Distortion</b>	-55 dB Max. 82 channels at 15 dBmV
<b>Composite Second Order Distortion</b>	-55 dB Max. 82 channels at 15 dBmV
<b>Composite Triple Beat Distortion</b>	-55 dB Max. 82 channels at 15 dBmV
<b>Output Level</b>	6 to 10 dBmV
<b>Isolation (input/output)</b>	70 dB Min.
<b>Differential Gain</b>	10% Max., 0 to 80 IRE
<b>Differential Phase</b>	10° Max., 0 to 80 IRE
<b>Scrambling method</b>	Dynamic video/sync inversion
<b>Parental Control by channel</b>	100% user controlled offering channel by channel selections
<b>Mechanical Security</b>	Security screws, security pin, uni-chassis.
<b>Downloadable Parameters</b>	Output channel Authorization Information Barker channel (s) Channel map
<b>Two-way System Compatibility</b>	Upgrade with internal telephone modem
<b>Operating Temperature Range</b>	15° C to 40° C
<b>Operating Humidity Range</b>	5% to 95% non-condensing
<b>AC Voltage</b>	105 Vac to 125 Vac, 60 Hz
<b>Power Dissipation</b>	18 W Max.
<b>Surge Protection</b>	Surge Protection provided power supply and RF ports
<b>Size</b>	10.25 W x 8 D x 2.25 H (inches)