Broadcast Microwave Services (BMS) introduces the BMTS-M MANET transceiver system as an airborne video and data solution with the power of the Wave Relay® MANET. The BMTS-M system included everything needed for high quality, reliable, and secure streaming of high-definition video on Wave Relay® MANET networks.

The BMTS-MI communications and control unit receives the video from the integrated antenna over ethernet then decodes the streaming data that is then sent out on various video and data ports. BMTS-MI has a Graphical User Interfaces (GUI) can be accessed via the unit Ethernet port to configure and control the transceiver, set encoding/decoding parameters as well as view system status information.

BMTS-MI INDOOR COMMUNICATIONS/CONTROL UNIT (Front View)

BMTS-MI INDOOR COMMUNICATIONS/CONTROL UNIT (Rear Connectors)

J1	Power in	IEC 60320 C14 receptacle, switched with serviceable fuse
J2	Power Output (to POE for integrated Antenna)	Amphenol PT02E-14-5S
J3	Serial for user data	DE-9S, female
J4	Serial for user data	DE-9S, female
J5	Ethernet (to POE) (10.100 Base-T)	M12-4F, 4 pin female, D-coded, internal thread, IP67
J6	GbE Ethernet	RJ45
J7, J8	HDMI outputs	HDMI, full size, Type A, female
J9, J10	3G-SDI outputs (with embedded audio and KLV metadata)	BNC, female, 75-ohm

BMTS-MI Technical Specifications

Video Decoding	H.264; H.265
Audio Decoding	MPEG-2 ADTS; MPEG-4 LOA/LATM
Audio Channels	Up to two (2) embedded audio channels in SDI and HDMI outputs
Serial Ports	Two (2) serial ports, each up to 115 kB/s. Can contain: User data serial channel(s) from BTMS-MA GPS data from BTMS-MA
IP Streaming	Unicast or Multicast; MPEG Transport Stream; Secure Reliable Transport (SRT); Real-Time Streaming protocol (RTSP)
Video Resolutions	720x480i 60/59.94 Hz (NTSC) 720x576i 50 Hz (PAL) 720p 60/59.94/50 Hz 720p 30/29.97/25 Hz (SDI only – not supported on HDMI) 1080i 60/59.94/50 Hz 1080p 60/59.94/50/30/29.97/25/24/23.98 Hz
Local Control	Ethernet
Remote Control	Ethernet
Configuration	Web GUI
Power Input	Universal AC Input, 85~285VAC, 50/60Hz
Power Consumption	25W (BMTS-MI only)
Operating Temperature	-15° to +60° C
Operating Temperature	-55 to +85° C (-67 to +185° F)
Storage Temperature	-55 to +85° C (-67 to +185° F)
Weight	6.25 lbs.
Dimensions	17.3" W x 12.0" D x 1.725" H – box only, 18.99" W x 12.71" D x 1.725" H – with connectors