MT3100 and AM3100

Mount, Dock, and Amplifier for the HH3100 Series

Introducing the NEW Intelligent Mount and Amplifier for the Spectre M® Handheld Series Radios

The MT3100 is a rugged mobile mount and docking station with unique features that was designed for the HH3100 Series multiband radios.

It operates from any +9V to +36V DC power source and provides battery charging for the HH3100.

In addition to charging the main radio battery, the MT3100 offers an additional dock where a second (spare) battery can be charged.

The MT3100 mount offers a true "jerk and run" capability that does not require connecting or disconnecting any cable. This allows the user to transition from vehicular/mobile operation to handheld operation in seconds.

The MT3100 mount supports "retransmission" and tactical Intercom interfaces.

The AM3100 is a rugged and compact 50W tactical amplifier that supports all of the HH3100-series opreating modes. This includes FM, AM, and DIGITAL modes in both fixed-frequency and hopping modes (TRANSEC).

The AM3100 is designed to be mounted on the back of the MT3100 vehicle mount and receives its power from the mount. The AM3100 is automatically switched on-line when the radio is inserted into the mount. This minimizes the need for operator intervention.

MT3100 Mount

- Rugged MIL-STD-810G mount and dock
- Auto-detection of mounting and unmounting of a radio
- Built-in BITE with visual LED indicators
- Volume control, Power switch and Dimmer switch
- RS232 (DB-9), USB (Type A), and RJ45 (Ethernet) interfaces
- DC input from +9 VDC to +36 VDC (12 VDC and 24 VDC)
- Charging capability for radio battery and spare battery while operating
- Real "Jerk and Run" (Hot Swap)
- Retransmission capability (with optional RETRANS kit)
- VIC-1 interface option

AM3100 Amplifier

- 50W 30–512 MHz amplifier
- Rugged & compact 50W tactical amplifier
- Natural convection cooling
- Full spectrum 30–512 MHz coverage
- Supports fixed frequency and frequency hopping
- Fully compatible with Datron's HH3100A and HH3100M radios

* United States Patents: 9,935,668; 10,056,932; D830986; and 10,251,030

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DATRON
Performance You Require. Value You Expect.®

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Certification # 08.347.1
ISO 9001:2015
Registered Quality System
Datron World Communications, Inc.

Subject to export regulations

Specifications subject to change without notice - rev 190508

Spectre M is a registered trademark of Datron World Communications Inc.

Made in the USA

MT3100 Mount Specifications

AUDIO

• AUDIO INTERFACE	Standard MIL audio interface (U-283/U) for MHS, H-250, etc.
• EXTERNAL SPEAKER	Audio interface for external speaker

DOCKING

• AMPLIFIERS	Provides interface for AM3100 amplifiers

DC POWER

• CONNECTOR	DC output connector (+28 VDC)
• CABLE	DC power cable w/ MIL-DTL-55181/2-01 compatibility connector
• DC INPUT	+9 VDC to 36 VDC (nominal +12 VDC and 24 VDC)

ANTENNA CONNECTORS

• ANTENNA	N–F antenna connector
• GPS	GPS antenna connector (TNC)

MECHANICAL

• SIZE (H x W x D)	10.75 in. (11.3 in. with AM3100) x 11.1 in. x 13.5 in. 273 mm (287 mm with AM3100) x 282 mm x 343 mm
• WEIGHT	20.0 lbs. (28.7 lbs. with AM3100) 9.1 kg (13 kg)
• COLOR	Matte Black + Olive Drab Green

ENVIRONMENTAL

• TEMPERATURE	Operating: -30° C to +60° C per MIL-STD-810G Methods 501.5, and 502.5 Procedure II for operation Storage: -40° C to +85° C per MIL-STD-810G Methods 501.5, Procedure I, and 502.5 Procedure I for storage
• TEMPERATURE SHOCK	Per MIL-STD-810G, Method 503.5, Procedure I-C
• SOLAR RADIATION (Sunshine)	Per MIL-STD-810G, Method 505.5, Procedure II
• RAIN	Per MIL-STD-810G. Method 506.5, Procedure I
• HUMIDITY (Operating)	Per MIL-STD-810G, Method 507.5, Procedure II
• SALT FOG	Per MIL-STD-810G. Method 509.5, Procedure I
• SAND and DUST	Per MIL-STD-810G, Method 510.5, Procedure I and II
• VIBRATION	Per MIL-STD-810G. Method 514.6, Procedure I
• SHOCK	Per MIL-STD-810G. Method 516.6, Procedure I
• FLUID CONTAMINATION	Per MIL-STD-810G. Method 504.1, Procedure II

AM3100 Amplifier Specifications

GENERAL

• RADIO CONNECTOR	BNC female
• ANTENNA CONNECTOR	Type N female
• HIGH TEMPERATURE	High temperature power fold back
• DC POWER	28 VDC @ 15A Max.

TRANSMIT

• RF POWER INPUT	5 Watts peak typical (auto-managed)
• RF POWER OUTPUT	50Watts peak typical in both FM and AM (~12.5W AM carrier)
• RF GAIN	10 dB
• RF GAIN FLATNESS	±1dB
• HARMONIC REJECTION	-55 dBc 2nd and 3rd harmonic; -60 dBc 4th–10th harmonic
• RX–TX SWITCHING SPEED	100 μS

RECEIVE

• FREQUENCY RANGE	30–512 MHz
• INSERTION LOSS	1 dB max.
• VSWR	2.5:1 max.
• TX–RCV SWITCHING SPEED	100 μS
• RECEIVE FILTER	30–512 MHz band-pass filter

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