



DIGITAL COMMUNICATIONS PRODUCT CATALOG



SPECTRE[®] M
Handheld Radio
(HH3100)

2023 EDITION

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DWC-CATALOG

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Revision A

About Datron

Datron World Communications, Inc. (DWC) is a privately owned company that is a world leader in voice and data radio communications. The company designs, manufactures and distributes its radio products and communications systems to leading government, military and industrial organizations in over 100 countries worldwide through a network of local sales and service representatives. DWC offers its customers reliable equipment and comprehensive services to satisfy specific mission requirements. The company is widely recognized as the “best value” supplier in the industry by offering high performance products with low overall life cycle cost.

Our Digital Communications Products

Datron’s Digital Communications Products include a selection of HF, VHF, and multiband radio products that satisfy commercial and military voice and data requirements. These radio products include transceivers, accessories and ancillary equipment that can be configured to satisfy a wide variety of voice and data applications.

Spectre M® series of multiband SDR transceivers provide a technology-rich, high-performance, competitively-priced, multiband tactical handheld radio that features embedded ECCM, COMSEC (AES-256), GPS, and data capabilities. The Spectre M® Handheld Radio (HH3100) can be used as a handheld transceiver or integrated with the Spectre M® Mobile Mount (MT3100) as a 50W vehicular or fixed base system. It is fully compatible with our Spectre V® series radios (PRC2100V and HH2100V).

Spectre H® series of HF SDR transceivers are rugged HF Software Defined Radios (SDR) that provide state of the art digital communications including MELPe digital voice and MIL-STD-188-110B data with optional frequency hopping and high-level AES encryption. Datron’s Virtual Remote Control Unit software—DL7700-VRCU-DATA—provides the Spectre H® SDR Transceivers (RT7700H and PRC7700H) with remote control, e-mail and data services. Spectre H® transceivers enable users to benefit from select future enhancements via software updates. The Spectre H® SDR Transceiver (RT7700H) is available in high-power configurations up to 10 kW.

Spectre V® series of VHF transceivers operate in either clear channel or full-band frequency hopping modes with complementary digital encryption. The Spectre V® Manpack Radio (PRC2100V) combines high-performance with low life-cycle cost. This radio provides users with voice and data capabilities, GPS, ECCM and COMSEC, and an intuitive man/machine interface in the user’s native language, that represents today’s best value in a tactical communications system. It includes many new features including GPS Reporting and Spectre Messaging. The Selective Calling option provides the ability to scan channels.

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HF Transceivers



Section 1: Spectre H®

RT7700H SDR Radio

PRC7700H MANPACK RADIO

Standard Features

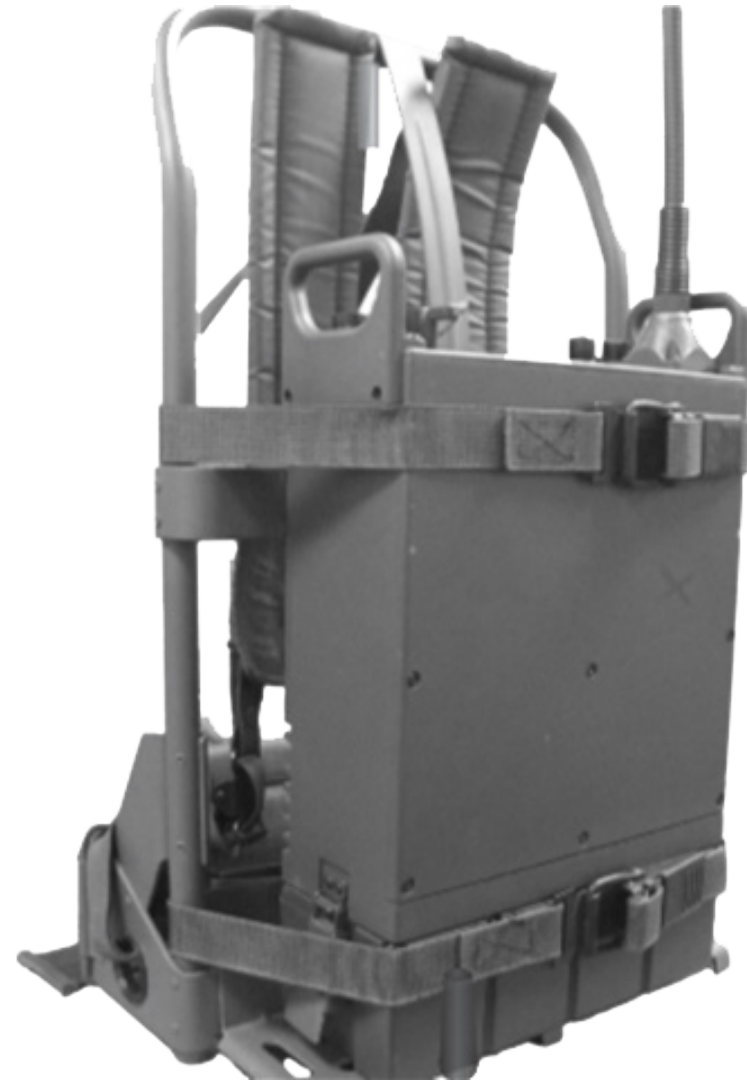
- 25W Power Output
- 1000 Channels, TX:1.5–30 MHz, RX: 100 kHz–30 MHz
- USB, LSB, 2x ISB, AM, AME, DATA
- MELPe Digital voice
- Software Defined Radio with DSP
- IP Addressable
- GPS
- MIL-STD-188-110B High-speed modem
- MIL-STD-188-141B (JITC Certified)
- MIL-STD-810 construction

Optional Features

- AES-256 COMSEC
- TRANSEC
- MIL-STD-188-141B (2G) ALE
- STANAG 4538 (3G) ALE

Standard System Includes:

- PRC7700H Manpack Radio
- MHS Military Handset
- BB-LI-20 Lithium-Ion Battery
- LC-2VS Aluminum Backpack Frame
- AT-271A/U Collapsible Whip Antenna
- CW-503 Accessory Bag
- GPS Antenna



PRC7700H Transceiver with LC-2VS Backpack Frame

PRC7700H MOBILE SYSTEM

Standard Features

- 25W–100W Power Output
- 1000 Channels, TX:1.5–30 MHz, RX: 100 kHz–30 MHz
- USB, LSB, 2x ISB, AM, AME, DATA
- MELPe Digital voice
- Software Defined Radio with DSP
- IP Addressable
- GPS
- MIL-STD-188-110B High-speed modem
- MIL-STD-188-141B (JITC Certified)
- MIL-STD-810 construction

Optional Features

- AES-256 COMSEC
- TRANSEC
- MIL-STD-188-141B (2G) ALE
- STANAG 4538 (3G) ALE

Standard System Includes:

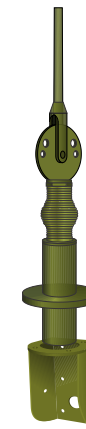
- PRC7700H Manpack Radio
- MHS Military Handset
- LS-R Loudspeaker
- MT7700H Vehicle Adapter
- MT2100MM Shock Mount
- AM7700H 100W Amplifier
- RAT7000B Automatic Antenna Tuner
- 701406 GPS Antenna
- RF, Control and DC power cables



PRC7700H Manpack Radio with Mount and Accessories



RAT7000B Antenna Tuner



MAR-16T Mobile Tactical Antenna

RT7700H BASE STATION

Standard Features

- 125W Power Output
- 1000 Channels, TX:1.5–30 MHz, RX: 100 kHz–30 MHz
- USB, LSB, 2x ISB, AM, AME, DATA
- MELPe Digital voice
- Software Defined Radio with DSP
- IP Addressable
- GPS
- MIL-STD-188-110B High-speed modem
- MIL-STD-188-141B (JITC Certified)
- MIL-STD-810 construction

Optional Features

- AES-256 COMSEC
- TRANSEC
- MIL-STD-188-141B (2G) ALE
- STANAG 4538 (3G) ALE

Standard System Includes:

- RT7700H Base Station
- MHS Military Handset
- UPF7700 Power Supply
- CLP-N Lightning Protector
- DC power cables



RT7700H Transceiver with MHS Handset (also available in gray)



DL7700-VRCU-DATA

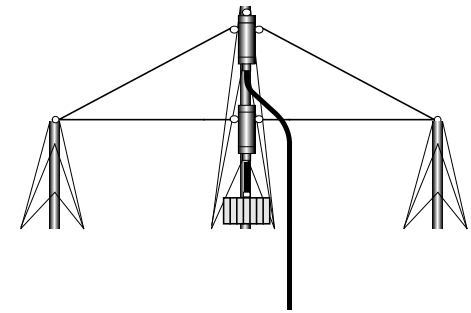


ABB100AN Antenna

SYSTEM CONFIGURATIONS

RT7700H Fixed Station Voice Systems with Broadband Antenna

1. RT7700H-SYS-B125-BB, Clear Voice	125W
2. RT7700H-SYS-B500-BB, Clear Voice	500W
3. RT7700H-SYS-B1000-BB, Clear Voice	1000W
4. RT7700H-SYS-B1000-SS-BB, Clear Voice, Split-Site	1000W
5. RT7700H-SYS-B125-C1-BB, Encrypted Voice	125W
6. RT7700H-SYS-B500-C1-BB, Encrypted Voice	500W
7. RT7700H-SYS-B1000-C1-BB, Encrypted Voice	1000W
8. RT7700H-SYS-B1000-C1-SS-BB, Encrypted Voice, Split-Site	1000W

RT7700H Fixed Station Voice Systems with Narrowband Antenna

1. RT7700H-SYS-B125-NB, Clear Voice	125W
2. RT7700H-SYS-B500-NB, Clear Voice	500W
3. RT7700H-SYS-B1000-NB, Clear Voice	1000W
4. RT7700H-SYS-B125-C1-NB, Encrypted Voice	125W
5. RT7700H-SYS-B500-C1-NB, Encrypted Voice	500W
6. RT7700H-SYS-B1000-C1-NB, Encrypted Voice	1000W

RT7700H Fixed Station Voice and Data Systems with Broadband Antenna

1. RT7700H-SYS-B125-D-BB, Clear Data	125W
2. RT7700H-SYS-B500-D-BB, Clear Data	500W
3. RT7700H-SYS-B1000-D-BB, Clear Data	1000W
4. RT7700H-SYS-B1000-D-SS-BB, Clear Data, Split-Site	1000W
5. RT7700H-SYS-B125-D-C1-BB, Encrypted Data	125W
6. RT7700H-SYS-B500-D-C1-BB, Encrypted Data	500W
7. RT7700H-SYS-B1000-D-C1-BB, Encrypted Data	1000W
8. RT7700H-SYS-B1000-D-C1-SS-BB, Encrypted Data, Split-Site	1000W

RT7700H Fixed Station Voice and Data Systems with Broadband Antenna

1. RT7700H-SYS-B125-D-BB, Clear Data	125W
2. RT7700H-SYS-B500-D-BB, Clear Data	500W
3. RT7700H-SYS-B1000-D-BB, Clear Data	1000W
4. RT7700H-SYS-B1000-D-SS-BB, Clear Data, Split-Site	1000W
5. RT7700H-SYS-B125-D-C1-BB, Encrypted Data	125W
6. RT7700H-SYS-B500-D-C1-BB, Encrypted Data	500W

PRC7700H Manpack Voice Systems

1. PRC7700H-SYS-M25, Clear Voice	25W
2. PRC7700H-SYS-M25-C1, Encrypted Voice	25W

PRC7700H Manpack Voice and Data Systems

1. PRC7700H-SYS-M25-D, Clear Data	25W
2. PRC7700H-SYS-M25-D-C1, Encrypted Data	25W

PRC7700H Mobile Voice Systems

1. PRC7700H-SYS-V25, Clear Voice	25W
2. PRC7700H-SYS-V100, Clear Voice	100W
3. PRC7700H-SYS-V25-C1, Encrypted Voice	25W
4. PRC7700H-SYS-V100-C1, Encrypted Voice	100W

PRC7700H Mobile Voice and Data Systems

1. PRC7700H-SYS-V25-D, Clear Data	25W
2. PRC7700H-SYS-V100-D, Clear Data	100W
3. PRC7700H-SYS-V25-D-C1, Encrypted Data	25W
4. PRC7700H-SYS-V100-D-C1, Encrypted Data	100W

Note: Contact your Datron Sales Representative for System Configuration

DTX5K / DTX10K AMPLIFIERS

5 kW HF Base Station Transmitter
for use with Broadband Antenna



DTX5K

10 kW HF Base Station Transmitter
for use with Broadband Antenna



DTX10K

Datron offers a 5 kW or 10 kW transmitter that can be paired with a companion receiver to form a high-power split-site system. The transmitter provides long distance voice and data communications for Ground-to-Air, Ground-to-Ship, and Ground-to-Ground applications. Fully compatible with 2G and 3G ALE modes of operation. Designed for use with Datron's RT7700H Software Defined Radio. The 5 kW transmitter is housed in a 2-bay cabinet while the 10 kW is housed in a 3-bay cabinet. Powered from 380 VAC, 3-phase source.

Note: Contact your Datron Sales Representative for system configuration.

MIL-STD-141B-ALE (2G)/STANAG 4538 (3G) Automatic Link Establishment Option

7700R-ALE2 (2G ALE) Software Option
7700R-ALE3 (3G ALE) Software Option

Capabilities Include:

- Automatic Selection of best channel
- Group Call, NET Call, All Call
- 2G ALE includes 20 networks and 100 channels
- 3G ALE includes 20 networks and 256 channels

1001010...001
7700R-ALE2

1001010...001
7700R-ALE3

AES-256 COMSEC Encryption Voice and Data Option

7700R-COMSEC Firmware Option

1001010...001
7700R-COMSEC

TRANSEC Voice and Data Frequency Hopping Option

7700R-TRANSEC Firmware Option

1001010...001
7700R-TRANSEC

Selective Calling Option for Ground-to-Air

7700R-SELCAL Firmware Option

- Provides ability to call aircraft from the front panel of RT7700H and DL7700-VRCU
- Included in Ground-to-Air Systems
- Designed per ICAO Standards Annex 10 for AirCall Systems

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7700R-SELCAL

High Stability Option

7700R-HS Hardware Option

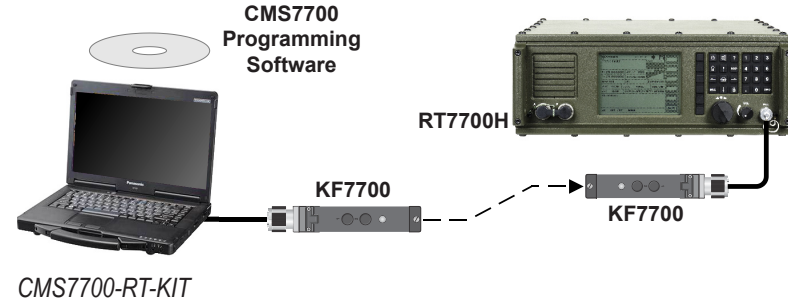
- Factory installed high-stability frequency option (0.01 ppm)
- Available only for the RT7700H

1001010...001
7700R-HS

REMOTE CONTROL AND DATA PROGRAMMING KIT

CMS7700-RT-KIT (for RT7700H) Includes:

- CMS7700 Programming Software
- KF7700 Keyfill device
- Programming cables for the RT7700H



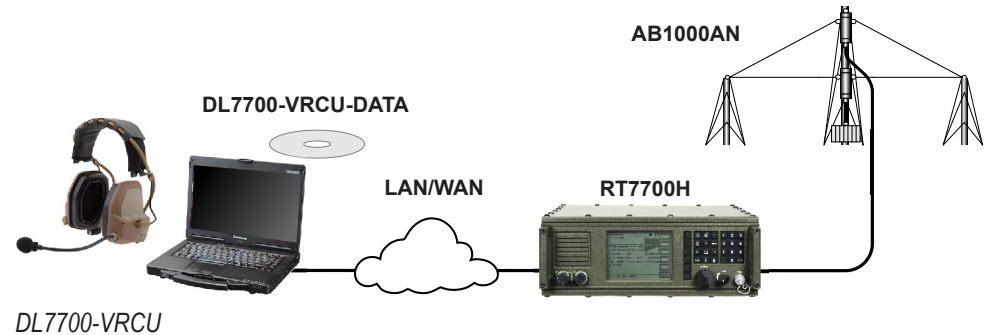
VIRTUAL REMOTE CONTROL (VRCU) AND E-MAIL SOFTWARE

DL7700-VRCU:

- Virtual Remote Control over IP for RT7700H and PRC7700H transceivers
- Full control of radios
- Allows configuration of individual radio and ALE parameters
- Designed for use with USB headset

DL7700-VRCU-DATA:

- Provides Virtual Remote Control and data services including HF E-mail, file transfer, and chat messaging
- Data rates to 19.2 kbps in 2-ISB mode



NOTEBOOK COMPUTERS

DT9500 Rugged Laptop Computer

701695 Semi-Rugged Laptop Computer



DT9500

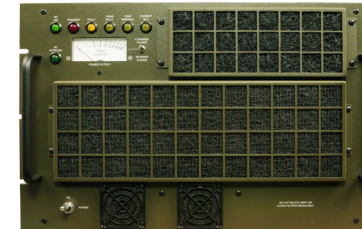


701695

HIGH POWER RF AMPLIFIERS FOR BASE STATION

RA500D and RA1000D High Power Amplifiers

- 500W and 1000W Broadband linear amplifiers designed for use with the RT7700H transceiver, operating from 1.5 to 30 MHz
- Completely self-contained units integrating RF amplifiers, harmonic filters, protective circuitry, and built-in AC-DC power supply



RA1000D RF Power Amplifier

Available
in gray

HIGH POWER ANTENNA TUNER FOR BASE STATION

RAT1000C High Power Antenna Tuner

- 1000W Automatic antenna tuner in an immersible case. With appropriate antenna, it can operate from 2 to 30 MHz.
- Includes 100 memory channels with VSWR monitoring and rapid digital tuning capability
- Available with optional shock mount tray (RAT1000-SM)



RAT1000C Automatic Antenna Tuner

LOW POWER ANTENNA TUNER

RAT7000B Antenna Tuner

- 125W PEP Automatic antenna tuner in an immersible case. With appropriate antenna, it can operate from 2 to 30 MHz.
- Includes 512 memory channels with VSWR monitoring and rapid digital tuning capability
- Available with optional shock mount tray (RAT7000B-SM)



RAT7000B Automatic Antenna Tuner

POWER SUPPLY FOR BASE STATION

UPF7700 Power Supply

- 28 VDC, continuous duty
- Packaged in rugged, waterproof case
- Universal input (90–260 VAC, 47–63 Hz)
- Available with optional rack mount (UPF7000RM)



Available
in gray

UPF7700 Power Supply

MOBILE ADAPTER/MOUNTING KIT

MT7700H Mobile Adapter

- Provides power conditioning and routes control and audio signals
- +28 VDC power input
- Creates +12 VDC for transceiver
- MIL-STD-810 construction

MT2100MM Mobile Mount

- Houses MT7700H mobile adaptor
- Provides vehicle mount for PRC7700H radio, MT7700H adapter,
- Includes integral shock mounts
- MIL-STD-810 construction



MT2100MM Mount with MT7700H Adapter
PRC7700H Transceiver and PRC7700H-IOX Box

MOBILE HIGH POWER AMPLIFIER

AM7700H Power Amplifier

- 100W AVG PEP Power output from 1.5 to 30 MHz
- Packaged in rugged, shock resistant, waterproof case
- +28 VDC power input
- MIL-STD-810 construction

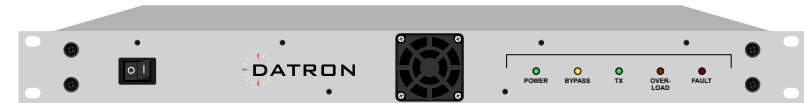


AM7700H Power Amplifier

PRE/POST SELECTOR

PPS7700 Pre/Post Selector

- Provides filtering for co-located transmitters and receivers
- Tuned Frequency Range - 2 to 30 MHz (typical)
- 70 dB rejection at +/-10% of frequency
- For use with the RT7700H HF radio



PPS7700 Pre/Post Selector

AUDIO ACCESSORIES

MHS Handset

- H-189/U military handset, Repairable.

H-250/U Handset

- Non-repairable version of MHS

H-140/U Headphones

- Ruggedized headphones

H3M Headset

- Headset-boom microphone
- Single earphone
- Clip-on PTT switch

KYR Morse Keyer

- Morse Key with 3 ft. cord and MIL connector

LS-R Loudspeaker Handset

- Loudspeaker with 5-pin MIL connector



MHS Handset



H-250/U Handset



KYR Morse Keyer



LS-R Loudspeaker

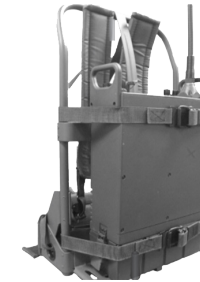
MANPACK CARRYING ACCESSORIES

LC-2VS Backpack

- Tubular backpack frame with velcro straps for carrying radio

CW-503 Bag

- Canvas bag for carrying manpack accessories



LC-2VS with radio

ANTENNAS

Fixed Station Antennas

- ABB100AN - Broadband dipole, 125W, includes 100 ft. RF cable
- 701408 - Folded dipole, 300W
- ABB1000AN - Broadband dipole, 1kW, includes 100 ft. RF cable
- RA-PAS - Whip, 32 ft. 1kW
- AW7, Fiberglass whip, 23 ft., 1kW, for marine use
- AW7-M - Fiberglass whip, 23 ft., 1kW, for marine use, heavy duty
- AW10 - Fiberglass whip, 35 ft., 5kW, for marine use, heavy duty
- AMX - Mast Kit for Broadband ABB antennas

Mobile Station Antennas

- MAR-12 - Whip, 12 ft.
- MAR-16T - Whip, 16 ft., with tilt whip adaptor
- 701406, - GPS, 5m cable

Manpack Antennas

- AT-271A/U - Collapsible whip
- ALD-R - Adjustable-length dipole, rugged
- ALW-R - Long-wire antenna kit, rugged
- NVISKIT - NVIS antenna kit, portable
- GPSANT-T - GPS, tactical

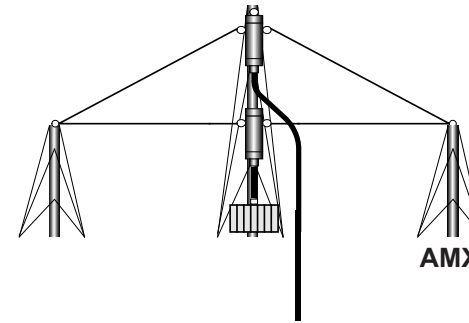


ABB1000AN



AW10 Fiberglass Whip

SPARE KITS

RT7700H Spare Kits

- RAT1000C-MK Module Kit for 1000W Antenna Tuner
- RAT7000B-MK Module Kit for 125W Antenna Tuner
- RAT7000B-MRK Module Repair Kit for 125W Antenna Tuner
- RAT7000B-PSK Parts Spare Kit for 125W Antenna Tuner
- RT7700H-MK Module Kit for Transceiver
- RT7700H-PSK Parts Spare Kit for Transceiver
- TW/RA500D-MK Module Kit for 500W Amplifier
- TW/RA500D-PSK Parts Spares Kit for 500W Amplifier
- TW/RA1000D-MK Module Kit for 1000W Amplifier
- TW/RA1000D-PSK Parts Spares Kit for 1000W Amplifier
- UPF7700-PSK Parts Spares Kit for Power Supply

PRC7700H Spare Kits

- AM7700H-MK Module Kit for 100W Amplifier
- AM7700H-MRK Module Repair Kit for 100W Amplifier
- AM7700H-PSK Parts Spares Kit for 100W Amplifier
- KF7700-MK Module Kit for Keyfill Device
- KF7700-PSK Parts Spares Kit for Keyfill Device
- MT7700H-MK Module Kit for Mobile Adapter
- MT7700H-PSK Parts Spares Kit for Mobile Adapter
- MT2100MM-PSK Parts Spares Kit for Mobile Mount
- PRC7700H-MK Module Kit for Transceiver
- PRC7700H-PSK Parts Spares Kit for Transceiver
- PRC7700H-IOX-MK Module Kit for Input/Output Expander Box
- PRC7700H-IOX-PSK Parts Spares Kit for Input/Output Expander Box
- RAT7000B-MK Module Kit for 125W Antenna Tuner
- RAT7000B-MRK Module Repair Kit for 125W Antenna Tuner
- RAT7000B-PSK Parts Spares Kit for 125W Antenna Tuner

MANUALS

RT7700H Equipment Manuals

- ABB100-MS Operator/Technical Manual for 125W Broadband Dipole Antenna
- ABB1000-MS Operator/Technical Manual for 1kW Broadband Dipole Antenna
- AMX-MS Operator/Technical Manual for Mast Kit
- CMS7700-MSOP Operator/Technical Manual for Communications Management Software
- DL7700-VRCU-DATA-MSOP Operator/Technical Manual for DatronLINK-7700 Software
- RAT1000C-MS Operator/Technical Manual for 1000W Antenna Tuner
- RAT7000B-MS Operator/Technical Manual for 125W Antenna Tuner
- RT7700H-MSOP Operator Manual for Transceiver
- RT7700H-MS Technical Manual for Transceiver
- TW/RA1000D-MS Operator/Technical Manual for 1000W Amplifier
- TW/RA500-MS Operator/Technical Manual for 500W Amplifier
- UPF7700-MS Operator/Technical Manual for Power Supply

PRC7700H Equipment Manuals

- ALD-R-MS Operator/Technical Manual for Dipole Antenna
- AM7700H-MS Operator/Technical Manual for Amplifier
- CMS7700-MSOP Operator/Technical Manual for Communications Management Software
- DL7700-VRCU-DATA-MSOP Operator/Technical Manual for DatronLINK-7700 Software
- MT7700H-MS Operator/Technical Manual for Mobile Adapter
- PRC7700H-MSOP Operator Manual for Transceiver
- PRC7700H-MS Technical Manual for Transceiver
- RAT7000B-MS Operator/Technical Manual for 125W Antenna Tuner

VHF/UHF MultiBand Transceivers

SPECTRE[®] M



Mobile Mount (MT3100),
with MultiBand Handheld Radio (HH3100)

Section 2: Spectre M[®]

HH3100 HANDHELD RADIO

Standard Features

- 7W Power Output
- HH3100A Ground-to-Air: 30–136 MHz
- HH3100M Multiband: 30–512 MHz
- 100 Programmable channels
- Datron 40-bit, 64-bit Encrypted Voice/Data
- AES-256 Encrypted Voice/Data
- Frequency Hopping
- Digital data to 64 kbps
- IP Addressable
- GPS
- Compatible with Spectre V® radios (PRC2100V & HH2100V)
- MIL-STD-810 construction
- Selective Calling
- Spectre Messaging

Standard System Includes:

- HH3100 Handheld Radio
- BB-LI-3100 Lithium-Ion battery
- ANT-MB-HH Tape antenna
- 701919 GPS antenna
- BC-3100-1 Battery charger
- CC-3100 Radio pouch



HH3100 Handheld Radio

MT3100 MOBILE SYSTEM

Standard Features

- 50W Power Output
- HH3100A Ground-to-Air: 30–136 MHz
- HH3100M Multiband: 30–512 MHz
- 100 Programmable channels
- Datron 40-bit, 64-bit Encrypted Voice/Data
- AES-256 Encrypted Voice/Data
- Frequency Hopping
- Digital data to 64 kbps
- IP Addressable
- GPS
- Compatible with Spectre V[®] radios (PRC2100V & HH2100V)
- MIL-STD-810 construction
- Selective Calling
- Spectre Messaging

Standard System Includes:

- HH3100 Handheld Radio
- MHS Military Handset
- LS-R Loudspeaker
- MT3100-MM Mobile Mount
- ANT-MB-HH Tape Antenna
- 701919 GPS Handheld Radio Antenna
- 701406 GPS Vehicular antenna
- RF, control and DC cables
- High Power System with AM3100 Amplifier



MT3100 Mobile Mount with HH3100 Handheld Radio

MT3100 BASE STATION SYSTEM

Standard Features

- 50W Power Output
- HH3100A Ground-to-Air: 30–136 MHz
- HH3100M Multiband: 30–512 MHz
- 100 Programmable channels
- Datron 40-bit, 64-bit Encrypted Voice/Data
- AES-256 Encrypted Voice/Data
- Frequency Hopping
- Digital data to 64 kbps
- IP Addressable
- GPS
- Compatible with Spectre V® radios (PRC2100V & HH2100V)
- MIL-STD-810 construction
- Selective Calling
- Spectre Messaging

Standard System Includes:

- HH3100 Handheld Radio
- MHS Military Handset
- LS-R Loudspeaker
- MT3100-MM Mobile Mount
- ANT-MB-HH Tape Antenna
- 701919 GPS Handheld Radio Antenna
- 701406 GPS Vehicular Antenna
- RF, Control and DC Cables
- High Power System with AM3100 Amplifier



HH3100 Handheld Radio in MT3100-DM Desktop Mount

SYSTEM CONFIGURATIONS

MT3100A Ground-to-Air Handheld Systems

- | | |
|------------------|--|
| 1. HH3100A-SYS | 7W |
| 2. HH3100A-SYS-E | 7W w/Embedded Voice Scrambler ¹ |

MT3100A Ground-to-Air Mobile Systems

- | | |
|--------------------|--|
| 1. MT3100A-SYS-V-1 | 7W |
| 2. MT3100A-SYS-V | 50W |
| 3. MT3100A-SYS-V-E | 50W, w/Embedded Voice Scrambler ¹ |

MT3100A Ground-to-Air Base Station Systems

- | | |
|--------------------|--|
| 1. MT3100A-SYS-B | 50W |
| 2. MT3100A-SYS-B-E | 50W, w/Embedded Voice Scrambler ¹ |

Note 1: Embedded Voice Scrambler for use with similarly equipped PRC1077, HH7700, and HH1077 radios.

Note 2: Contact your Datron Sales Representative for System Configuration.

MT3100M MultiBand Handheld Systems

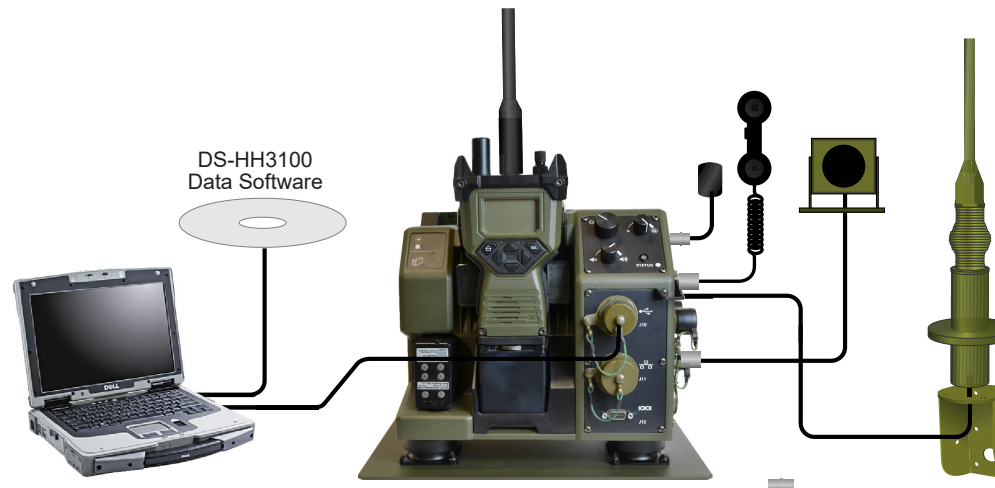
- | | |
|------------------|--|
| 1. HH3100M-SYS | 7W |
| 2. HH3100M-SYS-E | 7W w/Embedded Voice Scrambler ¹ |

MT3100M MultiBand Mobile Systems

- | | |
|----------------------|--|
| 1. MT3100M-SYS-V-1 | 7W |
| 2. MT3100M-SYS-V | 50W |
| 3. MT3100M-SYS-V-E | 50W, w/Embedded Voice Scrambler ¹ |
| 4. MT3100M-SYS-V-R | 50W, Retransmission |
| 5. MT3100M-SYS-V-R-E | 50W, Retransmission, w/Embedded Voice Scrambler ¹ |

MT3100M MultiBand Base Station Systems

- | | |
|----------------------|--|
| 1. MT3100M-SYS-B | 50W |
| 2. MT3100M-SYS-B-E | 50W, w/Embedded Voice Scrambler ¹ |
| 3. MT3100M-SYS-B-R | 50W, Retransmission |
| 4. MT3100M-SYS-B-R-E | 50W, Retransmission, w/Embedded Voice Scrambler ¹ |

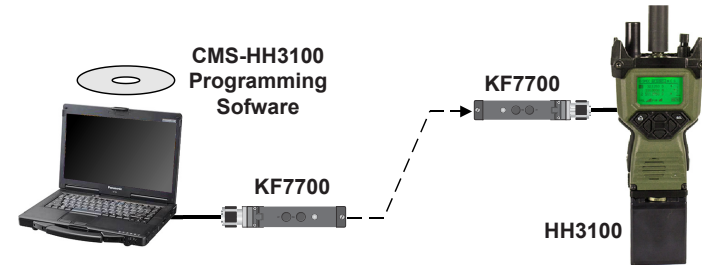


MT3100 Mobile Mount Configuration

CONFIGURATION MANAGEMENT SOFTWARE KIT

CMS-HH3100-KIT

- CMS-HH3100 Programming software
- KF2100 Keyfill device
- 2100CD Clone device
- Programming cables for HH3100
- CMS-HH3100-MSOP Operator Manual



HH3100-DATA-CBL Data Cable

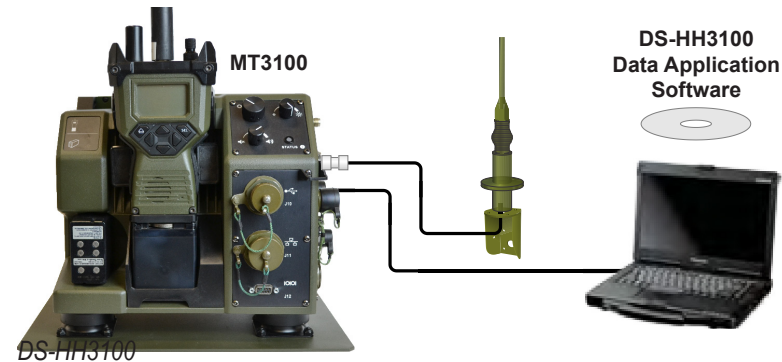
DATA SOFTWARE AND INTERFACES

DS-HH3100

- DS-HH3100 Data Application Software for the HH3100 radio
- Point-to-Point and Point-to-Multipoint data transfer
- E-mail and chat messaging support
- ARQ protocol ensures error-free delivery
- Mixed networks with HH3100 support

HH3100-DATA-CBL

- HH3100 Data cable
- Connects to HH3100 Multi-purpose connector and computer COM port via C992304 serial cable
- Used for data transfers, chat, messaging, configuration and encryption key downloads



DS-HH3100



HH3100-DATA-CBL Data Cable

NOTEBOOK COMPUTERS

DT9500 Rugged Laptop Computer

701695 Semi-Rugged Laptop Computer



DT9500



701695

POWER SUPPLY FOR BASE STATION

PS-28-36 Power Supply

- +28 VDC nominal, continuous duty
- Universal input (90–264 VAC, 47–63 Hz)
- Cost savings Power Correction Factor of 0.98
- Available with optional rack mount version (PS-28-36R)



PS-28-36 Power Supply

BATTERY

BB-LI-3100

- Lithium-Ion battery
- 10.8 VDC (nominal)
- Rated at 6.4 AH



BB-LI-3100 Battery

BATTERY CHARGERS

BC-3100-1

- Single-unit Universal Battery Charger
- 120 or 220 VAC input

BC-3100-6

- Six-unit Universal Battery Charger
- 120 or 220 VAC input



BC-3100-1 Single Unit Battery Charger

RADIO CARRYING ACCESSORIES

CC-3100 Pouch

- Pouch for carrying radio
- Camouflage green



CC-3100 Pouch

AUDIO ACCESSORIES AND INTERFACES

MHS Handset

- H-189/U military handset, repairable

LS-R Loudspeaker

- Loudspeaker with 5-pin MIL-STD connector

HH3100-AUD-CBL

- HH3100 Audio cable
- Connects audio device to HH3100 Multit-purpose connector
- Connects to external handset or headset



MHS Handset



LS-R Loudspeaker



HH3100-AUD-CBL Audio Cable

ANTENNAS

Fixed Station Antenna

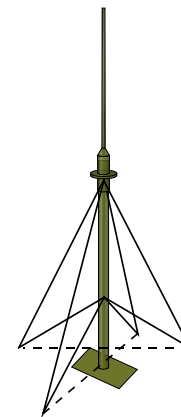
- ANT-MB-B Vertical, omni-directional, 100W, with 27 ft. mast

Mobile Station Antennas

- ANT-MB-V Center-fed, omni-directional, 75W
- 701406, GPS, 5m cable

Handheld Antennas

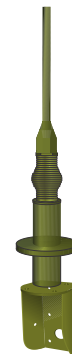
- ANT-MB-HH Vertical tape, 8W, omni-directional
- 701919, GPS, tactical



ANT-MB-B



ANT-MB-HH

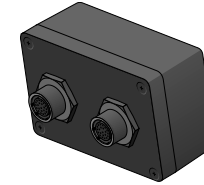


ANT-MB-V

RETRANSMISSION KIT

PRC3100-RETX

- Retransmission ground isolation box
- Provides signal conditioning
- Provides ground isolation between transceivers



*PRC2100-RETX
RETRANS Ground Isolation Box*

MANUALS

HH3100 Equipment Manuals

- AM3100-MS Operator/Technical Manual for Transceiver
- CMS-HH3100-MSOP Operator/Technical Manual for Communications Management Software
- HH3100-MSOP Operator Manual for Transceiver
- HH3100-MS Technical Manual for Transceiver
- MT3100-MS Operator/Technical Manual for Mobile Mount

VHF Transceivers



Section 3: Spectre V®

PRC2100V Radio

Section 3: Spectre V®

PRC2100V MANPACK RADIO

Standard Features

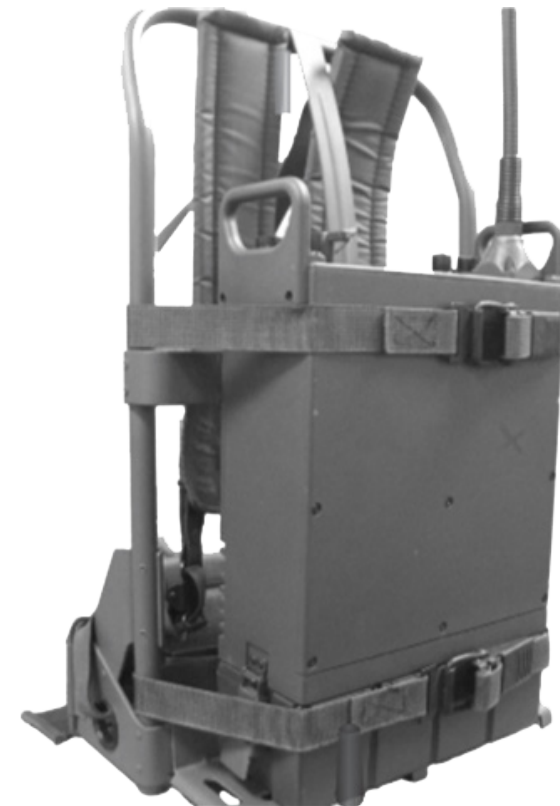
- 10W Power output
- 30 to 88 MHz operation
- 100 Programmable channels
- 40-bit, 64-bit Encrypted Voice/Data
- Frequency Hopping
- Digital data to 16 kbps
- IP Addressable
- GPS
- Compatible with Spectre M radios
- MIL-STD-810 construction

Optional Features

- Selective Calling
- Spectre Messaging

Standard System Includes:

- PRC2100V Manpack Radio
- MHS Military Handset
- BB-LI-20 Lithium-Ion battery
- LC-2VS Aluminum backpack frame
- AT892M Blade antenna
- AT-271A/U Collapsible whip antenna
- CW-503 Accessory bag
- GPS Antenna



PRC2100V Manpack Radio with LC-2VS Backpack Frame

PRC2100V MOBILE SYSTEM

Standard Features

- 10W and 75W Power output
- 30 to 88 MHz Operation
- 100 Programmable channels
- 40-bit, 64-bit Encrypted Voice/Data
- Frequency Hopping
- Digital data to 16 kbps
- IP Addressable
- GPS
- Compatible with Spectre M® radios
- MIL-STD-810 construction

Optional Features

- Selective Calling
- Spectre Messaging

Standard System Includes:

- PRC2100V Manpack Radio
- MHS Military Handset
- LS-R Loudspeaker
- MT2100 Mobile Adapter
- MT2100MM Mobile Mount
- 701567 Vehicular VHF/GPS antenna
- RF, Control, and DC cables
- Available with High Power System: AM2100 Amplifier



*PRC2100V Manpack Radio, MT2100 Mobile Adapter,
AM2100 Amplifier mounted in the MT2100-MM Mobile Mount*

PRC2100V BASE STATION SYSTEM

Standard Features

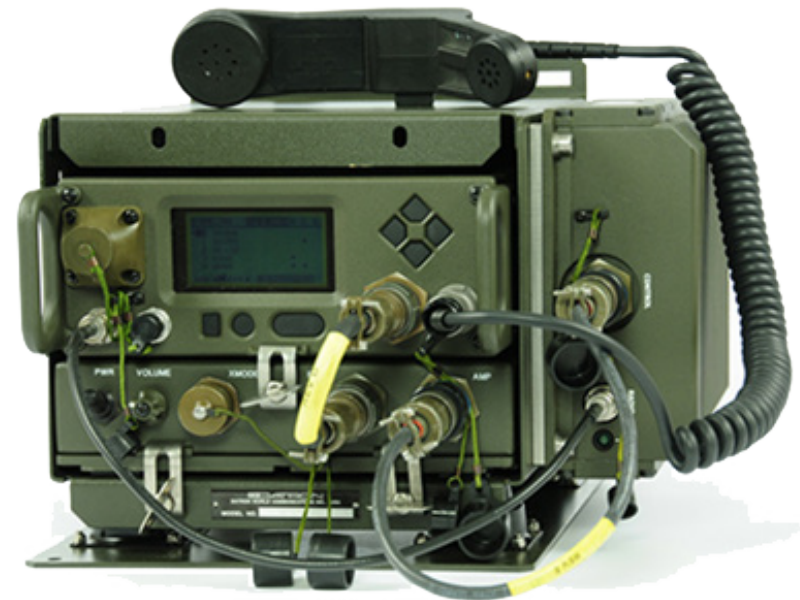
- 10W and 75W Power output
- 30 to 88 MHz Operation
- 100 Programmable channels
- 40-bit, 64-bit Encrypted Voice/Data
- Frequency Hopping
- Digital data to 16 kbps
- IP Addressable
- GPS
- Compatible with Spectre M® radios
- MIL-STD-810 construction

Optional Features

- Selective Calling
- Spectre Messaging

Standard System Includes:

- PRC2100V Manpack Radio
- MHS Military Handset
- LS-R Loudspeaker
- MT2100 Mobile Adapter
- MT2100MM Mobile Mount
- 701567 Vehicular VHF/GPS antenna
- RF, Control, and DC cables
- UPF7000A-28 Power Supply
- Available with High Power System: AM2100 Amplifier



*PRC2100V Manpack Radio, MT2100 Mobile Adapter,
AM2100 Amplifier mounted in the MT2100-MM Mobile Mount*

SYSTEM CONFIGURATIONS

PRC2100V Manpack Voice System:

1. PRC2100V-SYS-M10 10W

PRC2100V Manpack Voice and Data System:

1. PRC2100V-SYS-M10-D 10W

PRC2100V Mobile Voice Systems:

1. PRC2100V-SYS-V10 10W
2. PRC2100V-SYS-V75 75W

PRC2100V Mobile Voice and Data Systems:

1. PRC2100V-SYS-V10-D 10W
2. PRC2100V-SYS-V75-D 75W

PRC2100V Base Station Voice Systems:

1. PRC2100V-SYS-B10 10W
2. PRC2100V-SYS-B75 75W

PRC2100V Base Station Voice and Data Systems:

1. PRC2100V-SYS-B10-D 10W
2. PRC2100V-SYS-B75-D 75W



PRC2100V-SYS-B75 System

Note: Contact your Datron Sales Representative for System Configurations

SELECTIVE CALLING OPTION

SPECTREV-SEL

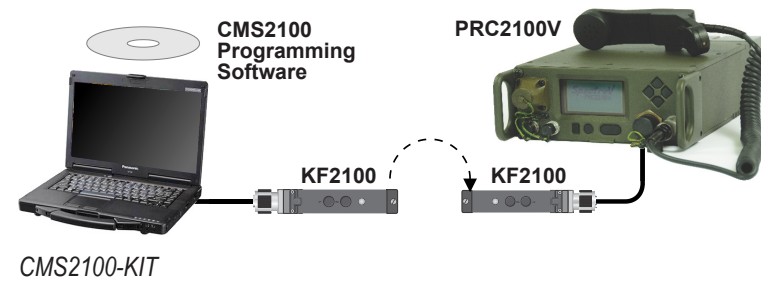
- SelCall Firmware Optionj for Spectre V radios
- Includes Spectre Messaging

1001010...001
SPECTREV SEL

CONFIGURATION MANAGEMENT SYSTEM KIT

CMS2100-KIT

- CMS2100 Programming Software
- KF2100 Keyfill device
- 2100CD Cloning device
- Programming cables for the PRC2100V



NOTEBOOK COMPUTERS

DT9500 Rugged Laptop Computer

701695 Semi-Rugged Laptop Computer



DT9500



701695

DATA SOFTWARE

DS-111-USB Data Software

- Data Application Software for the PRC2100V radio
- Provides point-to-point and point-to-multipoint data transfers
- Supports E-mail and Chat Messaging
- ARQ protocol ensures error-free delivery
- Supports mixed networks with PRC2100V and HH2100V radios



PRC2100V Mobile System

MOBILE ADAPTERS/MOUNTING KIT

MT2100 Mobile Adapter

- Power conditioning, routing control, and audio signals
- +28 VDC power input
- Produces +12 VDC for transceiver
- MIL-STD-810 construction

MT2100MM Mobile Mount

- Houses MT2100 Mobile Mount
- Provides mounting for PRC2100V radio, MT2100 Adaptor, and AM2100 Amplifier
- Includes integral shock mounts
- MIL-STD-810 construction



MT2100MM Mount with MT2100 Adaptor, PRC2100V Transceiver and AM2100 Amplifier

MOBILE HIGH POWER AMPLIFIER

AM2100 Power Amplifier

- 75W Linear Power Amplifier designed for use with the in the MT2100MM mount



AM2100 Amplifier

POWER SUPPLY FOR BASE STATION

UPF7000A-28

- Universal power supply
- 85 to 240 VAC power input
- Produces +28 VDC for transceiver
- MIL-STD-810 construction



UPF7000A-28 Power Supply

BATTERY

BB-NM10 Battery Pack

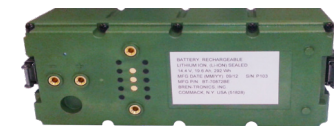
- Nickel Metal Hydride battery pack for use in PRC2100V radio
- 13.6 VDC (nominal)
- Rated at 11.1AH

BB-LI-20 Battery Pack

- Lithium-Ion battery pack for us in PRC2100V radio
- 11–16 VDC
- Rated at 20 AH



BB-NM10 Battery



BB-LI-20 Battery

BATTERY CHARGERS

BC-NM-1 Battery Charger

- Single-station battery charger

BC-NM-3 Battery Charger

- 3-station battery charger

BC-LI-20 Battery Charger

- Lithium-Ion battery charger
- 2 battery charger station

BC-LI-20-1 Battery Charger

- Lithium-Ion battery charger
- Solar charger capable

SPU-BC-LI-20 Battery Charger

- Solar battery charger for the BB-LI-20 Lithium-Ion battery



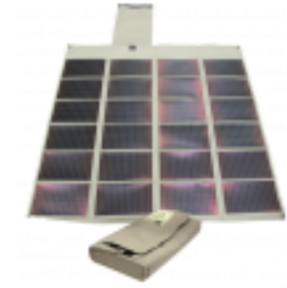
BC-NM-1 Battery Charger



BC-NM-3 Battery Charger



BC-LI-20 Lithium-Ion Battery Charger



SPU-BC-LI-20 Solar Battery Charger

AUDIO ACCESSORIES

MHS Handset

- H-189/U military handset, repairable

LS-R Loudspeaker

- Loudspeaker with 5-pin MIL-STD connector



MHS Handset



LS-R Loudspeaker

RADIO CARRYING ACCESSORIES

LC-2VS Backpack Frame

- Aluminum backpack frame with velcro strap



LC-2VS Backpack

ANTENNAS

701567 VHF Antenna with GPS

- VHF 30–88 MHz Operation
- GPS



701567 VHF Antenna with GPS

RETRANS GROUND ISOLATION BOX

PRC2100-RETX Ground Isolation Box

- Retransmission ground isolation
- Provides signal conditioning and ground isolation between transceivers in a RETRANS system



PRC2100-RETX RETRANS Ground Isolation Box

SPARE KITS

PRC2100V Spare Kits

- AM2100-MK
- AM2100-MRK
- AM2100-PSK
- PRC2100V-MK
- PRC2100V-PSK
- MT2100-MK
- MT2100-PSK
- MT2100MM-PSK

Module Kit for AM2100 Amplifier
Module Repair Kit for AM2100 Amplifier
Parts Spares Kit for AM2100 Amplifier
Module Kit for PRC2100V Transceiver
Parts Spares Kit for PRC2100V Transceiver
Module Kit for MT2100 Mobile Mount
Parts Spares Kit for MT2100 Mobile Mount
Parts Spares Kit for MT2100 Shock Mount

MANUALS

HH2100 Equipment Manuals

- HH2100V-MSOP
- HH2100V-MS
- CMS2100-MSOP
- DS-111-MSOP

Operator Manual for Transceiver
Technical Manual for Transceiver
Operator Manual for Crypto Management System
Operator Manual for Data Application Software

PRC2100V Equipment Manuals

- PRC2100V-MSOP
- PRC2100V-MS
- CMS2100-MSOP
- AM2100-MS
- MT2100-MS
- KF2100-MS
- DS-111-MSOP

Operator Manual for Transceiver
Technical Manual for Transceiver
Operator Manual for Crypto Management System
Operator/Technical Manual for Amplifier
Operator/Technical Manual for Mobile Mount
Operator/Technical for Keyfill Device
Operator Manual for Data Application Software



DATRON