

Radar/Sensor Recording, Playback System

FEATURES

Ability to Record and Playback Radar and Sensor Data

Support for up to 16 Radar/Sensor Serial Ports of Connectivity

Ability to Transport Radar/Sensor Data over IP Networks

Time Stamping Ability

Wide Breath of Radar/Sensor Data Formats Supported

Ability to add Customer Specific Application Blades

SNMP Support for Monitoring and Status of MPR2000 System as a Whole and Specific Protocol Ports

Intuitive Web-based User Interface for Set-up, Configuration, and Monitoring



A critical part of the radar/sensor network is ensuring the data, regardless of its specific format, be properly received from remote radar and sensing sites for processing and viewing at other locations. Additionally, it is also highly desirable for equipment used in radar networks to provide such features as data record, playback, protocol conversion, and time stamping.

The MPR2000 System provides users with a solution that offers all of these capabilities while also providing the ability to easily transport the radar or sensor data received on the serial ports over IP networks to one or more simultaneous end points at remote locations for further analysis. Additionally, the MPR2000 provides the ability to add application blades such that data analysis can be done within the MPR2000 itself.

The Data Record feature provides the ability to store received data as raw (idles, sync, flags' and CRC) or in payload form, time stamps can also be included in the captured data. The capture time window and length of time to keep the data can be easily specified by the user through the system configuration interface.

The MPR2000 Data Playback feature allows the user to view the previously captured data as a source for analysis or transmission to other locations. Multiple playbacks can be simultaneously running with the playback data for each playback request being distributed to a specified link on the MPR2000 System and/or user application connection. The playback can also be configured to send the file data to all destinations in real time, slowed down, or sped up.

Utilizing a web-based user interface the MPR2000 System simplifies set-up, configuration, monitoring and maintenance for the user. These capabilities apply to the system as a whole, as well as the specific serial ports (links) which are controlled by the Radar/Sensor Protocol.

The MPR2000 System supports a wide breath of radar data formats including:

- ASTERIX (also known as Alenia, Selenia, Ericsson, RDIF)
- ATDL (Army Tactical Data Link)
- CD-2 (also known as FPS 117)
- General 18 Bit
- Link1
- Link-11B
- Marconi 10-Bit
- Modified Eurocontrol
- NEC Radar Extractor
- Raduga-2
- TADIL-B (Tactical Digital Information Link)
- Thomson-CSF (also known as Aircat500 and TPR1000)
- Thomson-TVT2
- Toshiba
- TPS-43 (can be configured as Common Format)
- TPS-75
- UDL (Unclassified Data Link)
- WEC/Jordan (Westinghouse Electric Corporation)



MPR2000 PRODUCT SHEET

Technical Specifications

ORDERING INFORMATION

PT-MPR2000-12419

MPR2000 System with 8 ports of RS422, Intel® Core™ 2 Duo Processor, and 120 GB HDD

Cable Options

PT-ACC335-12203

Four-position, 6 ft Hydra Cable with Console, RS449

PT-ACC335-12205

Four-position, 6 ft Hydra Cable without Console, RS449

PT-ACC335-12256

Four-position, 6 ft Hydra Cable with Console, EIA530

PT-ACC335-12257

Four-position, 6 ft Hydra Cable without Console, EIA530

Functionality

- Cost-effective solution for monitoring and recording radar/sensor lines remotely
- Wide range of radar formats supported, providing flexibility in usage
- Easy to use Web UI
- Ability to remotely configure system including individual radar/sensor lines
- Scalable from 8 to 16 serial ports for radar/sensor connectivity
- Automatic start up configuration of system
- Individual port data recording ability
- Data playback ability to multiple ports and or connections (users)
- Ability to monitor the status of each radar/sensor line
- Provide protocol link statistics (total number of received and transmitted messages, total number of error counts)
- SNMP support to obtain system information, radar/sensor configuration and statics
- Support for addition of customer specific application blades to system

Power Consumption

- AC input: 100 to 240 V AC, 50 to 60 Hz, 4 to 2 A

Mechanical

- Height: 1U, 44 mm (1.75 in.)
- Width: 436 mm (17.2 in.) without rack-mount flanges. Rack-mount flanges allow mounting to 19 in. racks
- Depth: 440 mm, maximum (18.5 in.)
- Weight: 7.62 kg (19.20 lb)

Environmental

- The MPR2000 System (enclosure, fan trays, and midplane) is designed for harsh environments. The system features sturdy steel construction with a durable powder coat finish.
- Operating: 5 to 40°C (41 to 104°F), up to 55°C (131°F) for 96 hours
- Storage: -40 to 70°C (-40 to 158°F)
- Relative humidity: 5 to 85%, up to 90% for 96 hours, non-condensing

Agency Certifications (Pending)

Safety

- UL/cUL 60950 Safety for Information Technology Equipment
- EN/IEC 60950 Safety for Information Technology Equipment
- CB Certificate and Report Scheme

EMC Test Regulations

- FCC, Class A
- CE Declaration of Conformance

Network Equipment-Building System (NEBS)

- Designed for NEBS Level 3 and ETSI installations
 - GR-1089-CORE Issue 4
 - GR-63-CORE Issue 3

MTBF

- TBD hours per Bellcore SR-332

Product Benefits

- Enables multiple radar/sensor data sources to be recorded simultaneously.
- Enables recorded radar/sensor data to easily be viewed by multiple users simultaneously.
- Enables users to easily configure, set-up, and monitor system remotely.
- Wide range of radar formats supported, allowing single unit to be used in multiple applications.
- Enables customer specific application blades to be added to system, eliminating need for second server.
- Enables efficient and economical deployment, configuration, and monitoring of radar/sensor lines.

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