RADCON

RADAR PROTOCOL TRANSLATOR AND NETWORK INTERFACE CONVERTER

The RADCON Radar Protocol Translator and Network Interface Converter is used to connect legacy sensors and data links to IP networks but also for serial-to-serial and IP-to-IP data link translation. A unified all-to-all architecture allows for individual selection of input and output protocol profiles.

Features

- Support of (sync/async/IP) RADAR and Tactical Data Link (TADIL) protocols:
  - LINK 1
  - LINK 11B
  - MPDR/DDL
  - ATDL-1
  - RADEX/RIS/RSRP
  - BOR/A
  - ASTERIX
- Built-in status display and indicators
- Single or multi-sensor operation
- Data filtering
- Active or passive operation (for bi-directional links)
- Maintenance through built-in network port
- Flash memory operation
- 1U rack- mount COTS processing equipment

Standard Equipment

RADCON	Radar Protocol Translation and Interface Processor

Optional Equipment

RADCON-MGMT	RADCON Management Terminal

Services

RADCON-CUST	RADCON CUSTOMIZATION - battery operation - encryption algorithms - special line interface applications - other message handling protocols

RADCON
(RADAR Protocol Translator and Network Interface Converter)

Application

The RADCON RADAR Protocol Translator and Network Interface Converter is used for connecting legacy and modern sensors to Radar Data Processors (RDPs) through IP (Internet Protocol) networks or serial links.

The RADCON employs an all-to-all architecture to collect all available sensor data, translate it into a profile which can be understood by the RDPs on the network and disseminate it using a point-to-point or multicast protocol.

Serial-to-IP, serial-to-serial, IP-to-serial and IP-to-IP modes are supported.

For bidirectional links (e.g. LINK 11B), commonly employed by SHORAD systems, the RADCON can operate in passive mode, monitoring the link and sending selected link data to network RDPs or it can operate in active mode, establishing the link and subsequently forwarding sensor/link data to the Radar Data Processors.

The RADCON is able to handle single or multiple synchronous or asynchronous serial RADAR links.

A built-in HMI (Human-Machine Interface) facility allows for the management of RADCON operating parameters and filter settings, as well as for monitoring of radar traffic.

Custom Applications

The RADCON can be customized to meet specific customer requirements (encryption algorithms, additional protocols).

RSRP-01 RADAR Data Compressor/Decompressor Specifications	
Interfaces	V.24/V.28 (RS-232) Asynchronous/Synchronous ports Ethernet port
Application	Point-to-point IP or IP multicast radar data dissemination, point-to-point serial
Signalling	V.24 Synchronous (NRZ, !NRZ, NRZI, !NRZI) / Asynchronous
Signalling rate	RADAR SENSOR side: 600/1200/2400 (Synchronous) or 600 to 15200bps (Asynchronous) RADAR PROCESSOR side: Ethernet 10/100(/1000) Mbps, V.24 Synchronous/Asynchronous, as above
Radar/Link Protocols	- LINK 1 - LINK 11B - MPDR/DDL - ATDL - RADEX/RIS/RSRP - BOR/A - ASTERIX
Indicators	POWER, HDD (Flash)
Maintenance port	Ethernet 10/100 (RJ-45), Local console ports (keyboard, mouse, VGA)
Status Display	2 lines x 16 characters Operation mode, profile, data transfers, BIT diagnostics
Power Supply	Input: 90-265 VAC 150W
Environmental	0 - 50°C, 10- 90% relative humidity at 40°C, non-condensing
MTBF	25,000 hrs
Physical	Dimensions: 431mm x 44mm x 440mm. (W x H x D) Weight: 7 kg
Safety	UL / TUV / NEMKO / CCC / BSMI / CE FCC
EMC	FCC/CE

List of Services Offered	
Training	Maintenance Personnel.
Pre-Installation	Application planning, installation study.
Installation	Installation, Setting to work.
Post-Installation	After sales technical support.

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 Specifications are subject to change without notice.