

Key Features

- Automatic Repeat & Request (ARQ) Server
- STANAG 5066 ARQ, JITC certified, Edition 3 compliant
- Efficient Data Rate Change (75 bps to 128 kbps)
- JITC Certified Stack & Clients
- NATO cryptography compatible
- Data Modems – SSB, ISB & WBHF
- Support for ALE 2G and 3G, incl. ALM
- Windows and Linux OS compatible
- Synchronous/Asynchronous Operation
- Simple Configuration & Control
- Efficient data base implementation
- Unattended Background Operation
- Up to 4 Independent Circuits/Platform



RS66 Product Overview

RS66 is a software service comprised of multiple components working together to provide the correct data link solution for your system. The RS66 system is always made up of a S5066 stack and a controller service, optional components and clients may be added to extend the services available.

RS66 Product Features

RS66 provides service based Automatic Repeat Request (ARQ) data link transfers over HF and VHF radio communication networks. Based on STANAG 5066, the service in combination with different clients provides reliable data communication services, such as Email, messaging, chat and IP data, over degraded radio networks.

Based on *RapidM's* field proven and JITC certified S5066 technology, the **RS66** Service will efficiently make use of any channel, constantly adjusting the data rate until an optimum balance between data throughput and transmission repetitions is met.

S5066 ARQ

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Reduced Integration Effort

The **RS66 Service** is designed to be easily integrated into existing communications systems. The **RS66 Service** utilizes the S5066 Server and Client components (e.g. CFTP and IP Client). No user interaction is required following the initial configuration. The **RS66 Service** may also be configured to start automatically.

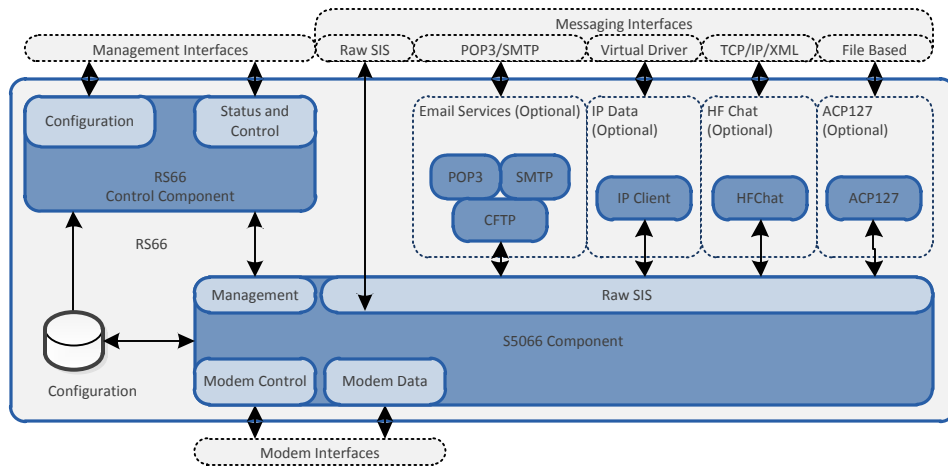
Integration with existing management systems is simple using the status and statistics monitoring via the XML/TCP/IP interface.

Automatic DRC

The **RS66 Service** provides automatic data rate change (DRC) support over a wide range of data rates. Typical rates are 75 bps to 19k2 bps for HF (SSB/ISB) operation and 9k6 to 128 kbps for wideband HF and V/UHF data systems.

ALE 2G and 3G Compatible

The **RS66 Service** makes use of a diverse range of channels using a Rapid Mobile modem with build in support for the 2G (**RM6A** or **RM8**) or 3G (**RM8**) channel access protocols.



RS66: STANAG 5066 Components		
SERVICE	S5066 COMPONENT(S) USED	DESCRIPTION
EMAIL	HMTTP, CFTP, SMTP, POP3 Clients	RS66 service used to transmit and receive Emails over the radio network using standard Email Clients (e.g. Microsoft Outlook™, Mozilla Thunderbird™)
MESSAGING	ACP-127, COSS Clients	RS66 service used to transmit and receive Short Messages and Chat over the radio network.
IP DATA	IP Client	RS66 service used to transmit and receive IP Packet Data over the radio network.
CHAT	RapidM Message Client (proprietary)	RS66 service used to transmit and receive Short Messages and Chat over the radio network.

RS66: STANAG 5066 Components			
	1	Configuration	Configure the RS66 service remotely using simple XML over TCP/IP messages.
	2	Control and Status	Take control of the RS66 service remotely or monitor the performance of the communication system using the simple XML over TCP/IP interface.
	3	Raw SIS	STANAG 5066 Annex A compliant interface. Allows up to 16 clients to bind to the S5066 stack.
	4	Modem Control	Allow the S5066 stack to adapt to channel conditions to make the most out of your bandwidth.
	5	Modem Data	Allow the S5066 to send and receive data synchronously or asynchronously with or without a cryptography device.

PLATFORM REQUIREMENTS			
OPERATING SYSTEM	<ul style="list-style-type: none"> Microsoft Windows XP SP3 (32 / 64 bit) Microsoft Windows 7 (32 / 64 bit) Red Hat Enterprise Linux (32 / 64 bit) 	RAM	At least 512 MB
CPU	<ul style="list-style-type: none"> i686 or x86_64 Compatible Consult RapidM for embedded solutions 	HDD	At least 1 GB

RECOMMENDED RAPID MOBILE MODEMS								
MODEM	SW OPTION	SUPPORTED DATA RATES	DATA INTERFACE		RACK MOUNT	SUPPORTED CHANNEL ACCESS PROTOCOLS		
			SYNCHRONOUS	ASYNCHRONOUS		FF	ALE 2G	ALE 3G
RM8	HF	75 – 19200 bps	•	•	•	•	-	•
RM8	VHF	300 – 96000 bps	•	•	•	•	-	-
RM8	WB	75 – 128000 bps	•	•	•	•	-	-
RM6/RM6A	HF	75 – 19200 bps	•	•	•	•	•	-
TC4 Embedded	HF	75 – 9600 bps	-	•	•	•	•	-

ORDERING INFORMATION	STOCK NUMBER	DESCRIPTION
RS66 SERVER WINDOWS	RMS-PC-WS66-3.3	S/W: S5066 Server Win V3.3
RS66 SERVER LINUX	RMS-PC-LS66-2.3	S/W: S5066 Server Linux V2.3
RS66 EMAIL CLIENTS WINDOWS	RMS-PC-WC66-2.2	S/W: S5066 Clients Win V2.2
RS66 EMAIL CLIENTS LINUX	RMS-PC-LC66-1.2	S/W: S5066 Clients Linux V1.2
SYNCHRONOUS PCI CARD	RMX-AC-SCLP-001	H/W: RM-SC: SYNC PCI Card, Low Prof. V01

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