

Technical Data
GEPARD 1A2/PRTL – 35mm GWI CHEETAH SPAAG

General

Combat weight	approx. 47.5 t
Length (guns in 12 o'clock position)	7.68 m
Width	3.27 m
Overall height (Search Radar in lowered position)	3.29 m
Ground clearance	0.50 m
Engine output	610 kW (830 HP DIN)
Maximum speed	approx. 65 km/h
Range	approx. 550 km

Radar System

- independent search and tracking radars
- 360° scan with simultaneous target tracking
- outstanding clutter suppression
- search on the move
- monopulse technique for tracking
- search and tracking performance under ECM conditions and clutter environment
- built-in test equipment for search and tracking radar
- compact rugged and modular design

Search Radar

	GE	NL
Frequency band	S-Band	X-Band
Range	15 km	15 km
Data rate	1 Hz (60 1/min)	1 Hz (60 1/min)
Sub-clutter visibility (SCV)	60 dB	43 dB
Antenna gain	approx. 23 dB	approx. 23 dB
Polarization	hor.	circular
Operating frequencies	6	6
(by choice of operator)		
IFF unit	1	1

Tracking Radar

	GE	NL
Frequency band	Ku-Band	X/Ka-Band
Operating frequencies	2	6
(by choice of operator)		
Range	15 km	13 km
Clutter suppression	approx. 23 dB	approx. 30 dB
Pulse repetition frequencies	3 (automatic)	3 (automatic)
Type of antenna	parabolic	parabolic

Radar Controls and Displays

	GE	NL
PPI	15 cm diameter, north-oriented range zones	14"
		Colour monitor

Laser

	GE	NL
Type	Nd YAG	none

GPS

	GE	NL
	Type PLGR 95 System and antenna integrated	Type PLGR 95 System and antenna integrated

BITE

System supervision/on-board electronic equipment is monitored through built-in test equipment

Fire Control Computer

- Miniaturised digital computer
- 32 bit microprocessor based on 68020 Motorola
 - single board computers with specific arithmetic coprocessors and common memory
 - all data related to the fixed vehicle coordinate system
 - C³ interface

Periscopes

Fixed monocular eyepiece		
Magnification		
(by choice of operator)	1.5 power	6 power
Field of view	50°	12.5°

Gun/Turret Drive

	Elevation	Azimuth
Maximum gun control rates		
• acquisition	750 mrad/s	1600 mrad/s
• tracking	750 mrad/s	1000 mrad/s
Maximum gun control acceleration		
• acquisition	1400 mrad/s ²	1400 mrad/s ²
• tracking	700 mrad/s ²	1000 mrad/s ²
Electric drive: Ward-Leonard generator driven from APU		

Armament and Ammunition

Gun	Automatic belt-fed guns
Calibre	Type KDA, 35 mm
Length of barrel	90 calibre ± 3150 mm
Rate of fire/2 barrels	1100 rounds per min.
Ammunition supply	
AA ammunition	approx. 320 rounds per gun
AP ammunition	approx. 20 rounds per gun
AA/AP munition	approx. 320/20 per gun

Auxiliary Power Unit

Liquid-cooled multi-fuel Diesel engine	
Type OM 314	DaimlerChrysler/66 kW

Power Supply (Battery)

Rated voltage	24 V DC
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Power Supply (Generators)

Voltage	3 x 200/115 V
Frequency	380 Hz
Power	2 x 20 kVA

Air Condition

Cooling of essential equipment and crew compartment	
• cooling power	10 kW
• maximum outside temperature	46 °C

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