



For vehicular situations, the GCS Communications-On-The-Move (COTM) is a fully integrated communication system based on the L3 Datron FSS-4180-LC high-performance, multiband radome antenna system. This solution provides long range, reliable communications in X-, Ku-, Ka- bands. Developed with L3's current Hawkeye and Panther customers in mind, this system provides all of the same dependability, flexibility and ruggedness that they have come to expect from L3 GCS SATCOM systems. It offers the user the flexibility to support multiple operational scenarios, utilizing the modular architecture of their current L3 GCS Fly-away terminals.

The system consists of a 2-axis pedestal antenna, customizable in-vehicle modem package and a complete vehicle integration kit to include all interface cables and mounting hardware. Modem options consist of the proven L3 GCS Hawkeye eODU and various rack-mount modems. For Jerk-and-Run applications, the Panther II modem chassis can be utilized to enable operations outside of the vehicle while minimizing overall customer investment.

L3 GCS' Communications-On-The Move (COTM) system supports 2-way VoIP, data, streaming video, as well as tactical military and commercial radio extension over the toughest terrain.

Our team will customize each vehicle or trailer solution to include customer requirements for baseband, modem and power.

SYSTEM FEATURES

- Embedded Antenna Control Unit (ACU)
- Embedded Inertial Measurement Unit (IMU)
- Supports X-, Ku- and Ka-Bands
- Jerk-and-Run capability
- Integrated iDirect modem platform
- Integrated ViewSat-e web-based GUI

APPLICATIONS

- Command and Control (C2)
- Military command/control or logistic support communications
- Deployable Homeland Defense or Emergency Response communications
- Worldwide remote Internet/VPN connectivity
- VoIP or Video-Conferencing



ANTENNA/PEDESTAL				
Aperture	18 in. (46 cm)			
Height (radome)	23 in. (58.4 cm)			
Acquisition	Auto (integrated ACU and IMU)			
Elevation	0° to +90°			
Azimuth	360° continuous			
BAND SUPPORT				
X-, Ku-, Ka- mil, Ka- wideband				
RF PERFORMANCE				
	X-	Ku-	Ka- mil	Ka- WB
Transmit (GHz)	7.90 to 8.40	13.75 to 14.50	30.0 to 31.0	29.0 to 31.0
Receive (GHz)	7.25 to 7.75	10.95 to 12.75	20.2 to 21.2	19.2 to 21.2
EIRP (dBW)	40	44.8	47.4	46
G/T (dB/K)	7.7	12.4	12.8	12.0
MODEM INTEGRATION				
iDirect e800, e850mp, 900, 950mp (other modem options available)				
POWER				
DC	28VDC			
Consumption	20A Peak, 15A continuous (OTM), 10A continuous (ATH)			
ENVIRONMENTAL				
Temperature	Operational: -42°C to +71°C (includes solar effects) Survival: -45°C to +80°C			
Wind Loading	100 mph combined (vehicle speed plus wind speed) Assumes proper vehicle integration			
QUALIFICATIONS/CERTIFICATIONS				
MIL-STD-810F ARSTRAT (X- & Ka-Band planned)				



JERK-AND-RUN CAPABILITY

- Dismounted operation as Panther II
- Common modem chassis
- Flexible, rugged IP connectivity



HAWKEYE III EODU OPTION

- MIL-STD-810G tested
- Rugged design for outdoor usage
- Embedded Ethernet switch
- Intuitive front panel display



RACK MOUNT MODEM OPTION

- Supports any L-Band modem
- Shock mounting available
- Baseband and crypto integration

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