



DATAPATH | Ka Band Upgrade Kits



DELIVERING KA BAND COMMUNICATIONS FOR WGS

Ka band expands communications capabilities while dramatically reducing the cost of satellite air time

As the demand for satellite capacity steadily increases, the satellite communications systems used by the U.S. military must rapidly evolve to operate in Ka band frequency over the Wideband Global SATCOM (WGS) satellites. These new, high-capacity WGS satellites are specifically designed to support the U.S. military and provide free bandwidth for their satellite communications worldwide.

Using Ka band, WGS provides the U.S. military with critical communications links, enabling WGS satellites to transmit and receive digital-quality voice, data and imagery while eliminating the recurring cost of satellite airtime. The Ka band system provides operational flexibility and delivers the needed capacity, connectivity and control to support demanding operational conditions – all at a significant cost savings.

DataPath Delivers First and Only Ka band WGS Communications for JNN Program

Recognizing the importance of Ka band communications, DataPath has worked aggressively to design and develop Ka Band Upgrade Kits for several of our core solution offerings. These Ka Band Upgrade Kits are specifically designed to augment existing systems that are already in the field. DataPath has successfully passed the WGS pre-certification process for our STT and DKET Mobile to provide our customers with immediate Ka Band operation upon implementation of the kit. The DataPath DKET LT is scheduled for WGS certification testing in spring 2008.

In addition to the Ka Band Upgrade Kits for existing terminals, new terminals can be configured to include Ka band capabilities in the production process. The result is our unique ability to quickly provide our customers with expanded communications options to meet the rapid evolution in SATCOM networks.

At a Glance:

Ka Band Upgrade Kits for DataPath Solutions

- Will be Wideband Global Satellite (WGS) Ka band certified
- Allows for immediate operation over WGS satellites
- Dramatic cost savings using Ka versus other frequencies
- Will be first WGS certified Ka Band for JNN program
- Switch from Ku to Ka frequencies in as little as 30 minutes
- Supported by DataPath's end-to-end support services
- Supported by MaxView® network management software



DataPath DKET Mobile terminals can be custom-built in various configurations to meet specific customer requirements while leveraging our "best-of-breed" technology, which now includes Ka band communications capabilities.

DataPath Solutions that are Ka band Capable

DataPath STT

The DataPath Satellite Transportable Terminal (STT) is a combat-proven, trailer-based transportable earth terminal designed to establish secure voice, video and data communications virtually anywhere. Designed to withstand challenging conditions and demanding operations in Iraq and Afghanistan, the U.S. Army deployed over 800 STTs (AN/TSC-167) for the Joint Network Node (JNN) program. These rugged, compact terminals deliver up to 56 Mbps throughput – and can be towed by a HMMWV or lifted virtually anywhere by a helicopter.



Ka Band Upgrade Kit for the STT: 2 cases

- Case 1 – High powered amplifier
- Case 2 – Feed / LNB

G/T	28 dB/K
EIRP	68 dBW (50W SSPA), 72 dBW (ITSU TWTA)
Frequency	20.2-21.2 GHz receive, 30.0-31.0 GHz transmit
Types	50 watt SSPA, 175 watt TWTA
Size	2 cases
Weight	100 lbs
Power	120 VAC / 50-60 HZ

DataPath DKET Mobile

Designed to support interim outpost applications, the DataPath DKET Mobile combines the power of the DKET LT with the mobility of a full-size truck to provide secure, reliable communications. The DataPath DKET Mobile is mission configurable and adaptable to the operating terrain. After the fall of Baghdad, these mobile earth terminals were deployed in Iraq in support of Operation Iraqi Freedom.



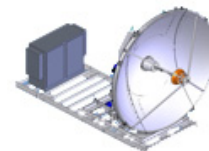
Ka Band Upgrade Kit for the DKET Mobile: 5 cases

- Case 1 – Feed
- Case 2 – Feed blower
- Case 3 – High powered amplifier
- Case 4 – High powered amplifier
- Case 5 – Waveguide, cables, hardware

G/T	32 dB/K
EIRP	78 dBW
Frequency	20.2-21.2 GHz receive, 30.0-31.0 GHz transmit
Types	250 watt TWTA
Size	5 cases
Weight	310 lbs
Power	208/240/380 VAC, 3Ø 50-60 HZ

DataPath DKET LT

The DataPath DKET LT is the right solution when you need to establish network-hub connectivity where no infrastructure exists. A self-contained earth terminal, the DKET LT is designed to deliver secure, reliable communications anywhere the mission demands. Easily transportable on a flatbed truck, it enables headquarters capabilities on the battlefield in just hours. The DataPath DKET LT is scheduled for WGS certification in spring 2008.



Ka Band Upgrade Kit for the DKET LT: 1 skid

Integrated add on system

G/T	33 dB/K
EIRP	79 dBW
Frequency	20.2-21.2 GHz receive, 30.0-31.0 GHz transmit
Types	TWTA
Size	1 skid, 8.5' x 24'
Weight	Over 1,000 lbs
Power	Universal power