










<p>Antenna Tx/Rx, Ku-Band 1.8m</p>		<p><b>Patriot. Antenna Tx/Rx, Ku-Band 1.8m. Model TX-INT180KUG.</b> Single piece deep drawn metal reflector. Includes feed. Boom supports 50 lbs / 22.26 kg. Intelsat Type-Approved</p>
<p>Antenna Tx/Rx, Ku-Band 1.8m</p>		<p><b>Andrew Antenna Tx/Rx 1.8m Ku-Band. Model 621805601 Class I.</b> Reflector is thermoset-molded for strength and surface accuracy. Designed for typical 1W and 2W Block Up-Converters (BUCs)</p>
<p>Antenna Tx/Rx, Ku-Band 1.8m</p>		<p><b>Andrew Antenna Tx/Rx 1.8m Ku-Band. Model 621835601C Class III.</b> Reflector is thermoset-molded for strength and surface accuracy. Heavy-duty Class III mount for 25 lb (11 kg) RF electronics (LNB &amp; BUC). . Intelsat Type-Approved</p>
<p>Antenna Tx/Rx, Ku-Band 2.4m</p>		<p><b>Patriot. Antenna Tx/Rx Ku-Band 2.4m . Model TX-INT240KUG.</b> New design for superior performance. Extra support ribs for added rigidity in wind. Includes feed. Intelsat Type-Approved</p>
<p>Antenna Tx/Rx, Ku-Band 2.4m</p>		<p><b>Andrew Antenna Tx/Rx, 2.4m Ku-Band Model 622435601C Class III.</b> Two-piece precision offset thermoset molded reflector. Heavy-duty Class III mount for 25 lb (11 kg) RF electronics (LNB &amp; BUC).. Intelsat Type-Approved</p>
<p>Antenna Tx/Rx, Ku-Band 3.0m</p>		<p><b>Patriot. Antenna Tx/Rx Ku-Band 3.0m . Model TX-300KUG.</b> New design for superior performance. Extra support ribs for added rigidity in wind. Includes feed.</p>
<p>Antenna Tx/Rx, Ku-Band 3.80m</p>		<p><b>Patriot. Antenna Tx/Rx Ku-Band 3.8m . Model TX-380KUG.</b> New design for superior performance. Extra support ribs for added rigidity in wind. Includes feed.</p>


## 1.2 C-BAND Antennas










<p><b>Antenna Tx/Rx, C-Band 1.8m Circular Polarization</b></p>		<p><b>Patriot. Antenna Tx/Rx, C-Band, 1.8m. Model TX-INT180CCG. Circular Polarization</b> Single piece deep drawn metal reflector. Include feed. Circular Polarization. Az-El Interface to 4 in O.D. Pipe. Intelsat Type-Approved</p>
<p><b>Antenna Tx/Rx, C-Band 1.8m Linear Polarization</b></p>		<p><b>Patriot. Antenna Tx/Rx, C-Band, 1.8m. Model TX-INT180CLG. Linear Polarization.</b> Single piece deep drawn metal reflector. Include feed. Linear Polarization. Az-El Interface to 4 in O.D. Pipe. Intelsat Type-Approved</p>
<p><b>Antenna Tx/Rx, C-Band 1.8m Circular Polarization</b></p>		<p><b>Andrew Antenna Tx/Rx, 1.8m C-Band. Circular Polarization . Model 621833401L/R Class III.</b> Reflector is thermoset-molded for strength and surface accuracy. Heavy-duty Class III mount for 25 lb (11 kg) RF electronics (LNB &amp; BUC). Intelsat Type Approved</p>
<p><b>Antenna Tx/Rx, C-Band 1.8m Linear Polarization</b></p>		<p><b>Andrew Antenna Tx/Rx, 1.8m C-Band.. Linear Polarization. Model 621833201, Class III.</b> Reflector is thermoset-molded for strength and surface accuracy. Heavy-duty Class III mount for 25 lb (11 kg) RF electronics (LNB &amp; BUC). Intelsat Type Approved</p>
<p><b>Antenna Tx/Rx, C-Band 2.4m Circular Polarization</b></p>		<p><b>Patriot. Antenna TX/Rx C-Band. Model TX-INT240CC. 2.4m. Circular Polarization</b> New design for superior performance. Extra support ribs for added rigidity in wind. Includes feed. Intelsat Type-Approved</p>
<p><b>Antenna Tx/Rx, C-Band 2.4m Linear Polarization</b></p>		<p><b>Patriot. Antenna TX/Rx C-Band. Model TX-INT240CL. 2.4m. Linear Polarization.</b> New design for superior performance. Extra support ribs for added rigidity in wind. Includes feed. Intelsat Type-Approved</p>
<p><b>Antenna Tx/Rx, C-Band 2.4m Circular Polarization</b></p>		<p><b>Andrew Antenna Tx/Rx, 2.4m C-Band. Circular Polarization .Circular Polarization. Model 622433401L/R Class III.</b> Reflector is thermoset-molded for strength and surface accuracy. Heavy-duty Class III mount for 25 lb (11 kg) RF electronics (LNB &amp; BUC). Intelsat Type Approved</p>
<p><b>Antenna Tx/Rx, C-Band 2.4m Linear Polarization</b></p>		<p><b>Andrew Antenna Tx/Rx, 2.4m C-Band. Linear Polarization. Model 622433201 Class III.</b> Reflector is thermoset-molded for strength and surface accuracy. Heavy-duty Class III mount for 25 lb (11 kg) RF electronics (LNB &amp; BUC). Intelsat Type Approved</p>

<p>Antenna Tx/Rx, C-Band 3.0m Linear Cross- Pol</p>		<p><b>Patriot. Antenna TX/Rx C-Band. Model TX300-CLOF. 3.0m. Linear Cros-Pol.</b> New design for superior performance. Extra support ribs for added rigidity in wind. Includes feed.</p>
<p>Antenna Tx/Rx, C-Band 3.0m Circular Polarization.</p>		<p><b>Patriot. Antenna TX/Rx C-Band. Model TX300-CCOF 3.0m. Circular Polarization.</b> New design for superior performance. Extra support ribs for added rigidity in wind. Includes feed.</p>
<p>Antenna Tx/Rx, C-Band 3.8m Linear Cross-Pol.</p>		<p><b>Patriot. Antenna TX/Rx C-Band. Model TX380-CLOF 3.8m. Linear Cros-Pol.</b> New design for superior performance. Extra support ribs for added rigidity in wind. Includes feed.</p>
<p>Antenna Tx/Rx, C-Band 3.8m Circular Polarization</p>		<p><b>Patriot. Antenna TX/Rx C-Band. Model TX380-CCOF 3.8m. Circular Polarization.</b> New design for superior performance. Extra support ribs for added rigidity in wind. Includes feed.</p>
<p>1.80m Flyaway Antennas. C-band Linear</p>		<p><b>1.8m Patriot Flyaway Antenna, C-band Linear. Model TXFLY-180CL.</b> Patented four piece for easy transportation. Preassembled tripod base mount with pull pins. All aluminum cases for easy transportation. C-Band feed horn, Cross-Pol Filter/OMT (C Freq. Range 3.625-4.2 GHz Rx, 5.85-6.425 Tx)</p>
<p>1.80m Flyaway Antennas. C- band Circular</p>		<p><b>1.8m Patriot Flyaway Antenna, C-band Circular. Model TXFLY-180CC.</b> Patented four piece for easy transportation. Preassembled tripod base mount with pull pins. All aluminium cases for easy transportation. C-band feed horn, Circular Polarizer, Filter/OMT (C Freq. Range 3.625-4.2 GHz Rx, 5.85-6.425 Tx)</p>

## 2.0 LNBS

### 2.1 C-Band LNBS

Norsat Model: 8525		Norsat LNB DRO C-Band, Model 8525, L.O Stability $\pm 500\text{KHz}$ , Noise Temperature 25K, Freq. 3.4~4.2GHz
Norsat Model: 8520		Norsat LNB DRO C-Band, Model 8520, L.O Stability $\pm 500\text{KHz}$ , Noise Temperature 20K, Freq. 3.4~4.2GHz
Norsat Model: 8515		Norsat LNB DRO C-Band, Model 8515, L.O Stability $\pm 500\text{KHz}$ , Noise Temperature 15K, Freq. 3.4~4.2GHz
Norsat Model: 8225		Norsat LNB DRO C-Band, Model 8225, L.O Stability $\pm 250\text{KHz}$ , Noise Temperature 25K, Freq. 3.4~4.2GHz
Norsat Model: 8220		Norsat LNB DRO C-Band, Model 8220, L.O Stability $\pm 250\text{KHz}$ , Noise Temperature 20K, Freq. 3.4~4.2GHz
Norsat Model: 8215		Norsat LNB DRO C-Band, Model 8215, L.O Stability $\pm 250\text{KHz}$ , Noise Temperature 15K, Freq. 3.4~4.2GHz
Norsat Model: 8125		Norsat LNB DRO C-Band, Model 8125, L.O Stability $\pm 100\text{KHz}$ , Noise Temperature 25K, Freq. 3.4~4.2GHz
Norsat Model: 8120		Norsat LNB DRO C-Band, Model 8120, L.O Stability $\pm 100\text{KHz}$ , Noise Temperature 20K, Freq. 3.4~4.2GHz

<p><b>Norsat Model: 8115</b></p>		<p><b>Norsat LNB DRO C-Band, Model 8115</b>, L.O Stability <math>\pm 100\text{KHz}</math>, Noise Temperature 15K, Freq. 3.4~4.2GHz</p>
<p><b>Norsat Model:3530</b></p>		<p><b>Norsat LNB DRO C-Band, Model 3530</b>, L.O Stability <math>\pm 25\text{KHz}</math>, Noise Temperature 30K, Freq. 3.4~4.2GHz</p>
<p><b>SPC Model: PLV804FB</b></p>		<p><b>SPC LNB PLL C-Band, Model PLV804F8</b>, L.O Stability <math>\pm 25\text{KHz}</math>, Noise Temperature 50K, Freq. 3.4~4.2GHz</p>
<p><b>Norsat Model:3530</b></p>		<p><b>Norsat LNB PLL C-Band, Model 3530</b>, L.O Stability <math>\pm 25\text{KHz}</math>, Temperature 30K, Freq. 3.4~4.2GHz</p>
<p><b>Norsat Model:3525</b></p>		<p><b>Norsat LNB PLL C-Band, Model 3525</b>, L.O Stability <math>\pm 25\text{KHz}</math>, Noise Temperature 25K, Freq. 3.4~4.2GHz</p>
<p><b>Norsat Model:3520</b></p>		<p><b>Norsat LNB PLL C-Band, Model 3520</b>, L.O Stability <math>\pm 25\text{KHz}</math>, Noise Temperature 20K, Freq. 3.4~4.2GHz</p>
<p><b>Norsat Model:3230</b></p>		<p><b>Norsat LNB PLL C-Band, Model 3230</b>, L.O Stability <math>\pm 10\text{KHz}</math>, Noise Temperature 30K, Freq. 3.4~4.2GHz</p>
<p><b>Norsat Model:3225</b></p>		<p><b>Norsat LNB PLL C-Band, Model 3225</b>, L.O Stability <math>\pm 10\text{KHz}</math>, Noise Temperature 25K, Freq. 3.4~4.2GHz</p>
<p><b>Norsat Model:3220</b></p>		<p><b>Norsat LNB PLL C-Band, Model 3220</b>, L.O Stability <math>\pm 10\text{KHz}</math>, Noise Temperature 20K, Freq. 3.4~4.2GHz</p>

Norsat Model:3130		Norsat LNB PLL C-Band, Model 3130, L.O Stability $\pm 5$ KHz, Noise Temperature 30K, Freq. 3.4~4.2GHz
Norsat Model:3125		Norsat LNB PLL C-Band, Model 3125, L.O Stability $\pm 5$ KHz, Noise Temperature 25K, Freq. 3.4~4.2GHz
Norsat Model:3120		Norsat LNB PLL C-Band, Model 3120, L.O Stability $\pm 5$ KHz, Noise Temperature 20K, Freq. 3.4~4.2GHz
SPC LNB C Band External Reference		SPC LNB External Reference Model PLV804AER, Noise Temperature 20 to 40 K, Freq. 3.4~4.2GHz

## 2.2 Ku-Band LNBS








Norsat Model:4507A		Norsat Lnb DRO Ku-Band, Model 4507A, L.O Stability $\pm 500$ KHz, Noise Figure 0.7dB, Freq. 11.7~12.20GHz
Norsat Model:4508A		Norsat Lnb DRO Ku-Band, Model 4508A, L.O Stability $\pm 500$ KHz, Noise Figure 0.8dB, Freq. 11.7~12.20GHz
Norsat Model:4206A		Norsat Lnb DRO Ku-Band, Model 4206A, L.O Stability $\pm 250$ KHz, Noise Figure 0.6dB, Freq. 11.7~12.20GHz
Norsat Model:4207A		Norsat Lnb DRO Ku-Band, Model 4207A, L.O Stability $\pm 250$ KHz, Noise Figure 0.7dB, Freq. 11.7~12.20GHz
Norsat Model:4208A		Norsat Lnb DRO Ku-Band, Model 4208A, L.O Stability $\pm 250$ KHz, Noise Figure 0.8dB, Freq. 11.7~12.20GHz
Norsat Model:4106A		Norsat Lnb DRO Ku-Band, Model 4106A, L.O Stability $\pm 150$ KHz, Noise Figure 0.6dB, Freq. 11.7~12.20GHz








Norsat Model:4107A		Norsat Lnb DRO Ku-Band, Model 4107A, L.O Stability $\pm 150\text{KHz}$ , Noise Figure 0.7dB, Freq. 11.7~12.20GHz
Norsat Model:4108A		Norsat Lnb DRO Ku-Band, Model 4108A, L.O Stability $\pm 150\text{KHz}$ , Noise Figure 0.8dB, Freq. 11.7~12.20GHz
SPC PLL LNB Model PLV813		SPC LNB PLL Ku-Band, Model PLV813, L.O Stability $\pm 25\text{KHz}$ , Noise Figure 0.9dB, Freq. 11.7~12.20GHz
NJR PLL LNB Ku Band: NJR2535H		NJR PLL LNB Ku Band: NJR2535H, L.O Stability $\pm 10\text{ppm}$ , Noise Figure 0.8 tp 1.2dB, Freq. 11.7~12.20GHz
NJR PLL LNB Ku Band: NJR2535S		NJR PLL LNB Ku Band: NJR2535S, $\pm 2.5\text{ppm}$ , Noise Figure 0.8 tp 1.2dB, Freq. 11.7~12.20GHz
Norsat Model:1508HA		Norsat LNB PLL Ku-Band, Model 1508HA, L.O Stability $\pm 5\text{KHz}$ , Noise Figure 0.8dB, Freq. 11.7~12.20GHz
Norsat Model:1507HA		Norsat LNB PLL Ku-Band, Model 1507HA, L.O Stability $\pm 5\text{KHz}$ , Noise Figure 0.7dB, Freq. 11.7~12.20GHz
Norsat Model:1209HA		Norsat LNB PLL Ku-Band, Model 1209HA, L.O Stability $\pm 25\text{KHz}$ , Noise Figure 0.9dB, Freq. 11.7~12.20GHz
Norsat Model:1208HA		Norsat LNB PLL Ku-Band, Model 1208HA, L.O Stability $\pm 25\text{KHz}$ , Noise Figure 0.8dB, Freq. 11.7~12.20GHz
Norsat Model:1207HA		Norsat LNB PLL Ku-Band, Model 1207HA, L.O Stability $\pm 25\text{KHz}$ , Noise Figure 0.7dB, Freq. 11.7~12.20GHz
Norsat Model:1109HA		Norsat LNB PLL Ku-Band, Model 1109HA, L.O Stability $\pm 10\text{KHz}$ , Noise Figure 0.9dB, Freq. 11.7~12.20GHz
Norsat Model:1108HA		Norsat LNB PLL Ku-Band, Model 1108HA, L.O Stability $\pm 10\text{KHz}$ , Noise Figure 0.8dB, Freq. 11.7~12.20GHz
Norsat Model:1107HA		Norsat LNB PLL Ku-Band, Model 1107HA, L.O Stability $\pm 10\text{KHz}$ , Noise Figure 0.7dB, Freq. 11.7~12.20GHz

<p><b>SPC LNB Ku Band Extrnal Reference Model: PLV810AER</b></p>		<p><b>SPC LNB Ku Band Extrnal Reference Model: PLV810AER,</b> Noise Figure 1.3dB, Freq. 11.7~12.20GHz</p>
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### 3.0 BUCs

#### 3.1 C-Band BUCs

<p><b>C-Band SPC BUC's . IF L-Band.</b></p>		<p><b>SPC C-Band BUC 5 Watts.</b> Model 30-0501-186A. Frequency 5.85~6.425 GHz</p>
<p><b>C-Band Nexgenwave. IF L-Banda.</b></p>		<p><b>Nexgenwave BUCs. C-Band 2 Watts.</b> Ideal for Broadband VSAT RF Terminal. Complies with Satellite Internet remote equipment for areas where C- band applications are required</p>
<p><b>C-Band Nexgenwave. IF L-Banda.</b></p>		<p><b>Nexgenwave BUCs. C-Band 5 Watts.</b> Ideal for Broadband VSAT RF Terminal. Complies with Satellite Internet remote equipment for areas where C- band applications are required</p>
<p><b>C-Band Nexgenwave. IF L-Banda.</b></p>		<p><b>Nexgenwave BUCs. C-Band 8 Watts.</b> Ideal for Broadband VSAT RF Terminal. Complies with Satellite Internet remote equipment for areas where C- band applications are required</p>
<p><b>C-Band Norsat BUC's . IF L-Band.</b></p>		<p><b>Norsat C-Band BUC, 2 Watts</b> Model 3020XPT. Frequency 5.85~6.425 GHz. Available with F and N connectors.</p>
<p><b>C-Band Norsat BUC's . IF L-Band.</b></p>		<p><b>Norsat C-Band BUC, 5 Watts</b> . Model 3050XPT. Frequency 5.85~6.425 GHz. Available with F and N connectors.</p>
<p><b>Alga Microwave C-Band 12W BUC's.</b></p>		<p><b>BUC ALGA Microwave 12 Watt C-Band BUC, 70 dB gain. Model NJAL5964-12.</b> High Efficiency Output Power (12W minimum @P1dB over temperature). No "Cooling Fan" Solution. 110/220 VAC Autoranging Operation. Freq. 5.850 to 6.425 GHz, IF Freq. 950 to 1,525 MHz.</p>


<p>Alga Microwave C-Band 20W BUC's.</p>		<p><b>BUC ALGA Microwave 20 Watt C-Band BUC, 70 dB gain. Model NJAL5964-20.</b> High Efficiency Output Power (12W minimum @P1dB over temperature). 110/220 VAC Autoranging Operation. Freq. 5.850 to 6.425 GHz, IF Freq. 950 to 1,525 MHz.</p>
<p>Alga Microwave C-Band 30W BUC's.</p>		<p><b>BUC ALGA Microwave 30 Watt C-Band BUC, 70 dB gain. Model NJAL5964-30.</b> High Efficiency Output Power (12W minimum @P1dB over temperature). 110/220 VAC Autoranging Operation. Freq. 5.850 to 6.425 GHz, IF Freq. 950 to 1,525 MHz.</p>
<p>Alga Microwave C-Band 40W BUC's.</p>		<p><b>BUC ALGA Microwave 40 Watt C-Band BUC, 70 dB gain. Model NJAL5964-40.</b> High Efficiency Output Power (12W minimum @P1dB over temperature). 110/220 VAC Autoranging Operation. Freq. 5.850 to 6.425 GHz, IF Freq. 950 to 1,525 MHz.</p>
<p>Alga Microwave C-Band 50W BUC's.</p>		<p><b>BUC ALGA Microwave 50 Watt C-Band BUC, 70 dB gain. Model NJAL5964-50.</b> High Efficiency Output Power (12W minimum @P1dB over temperature). 110/220 VAC Autoranging Operation. Freq. 5.850 to 6.425 GHz, IF Freq. 950 to 1,525 MHz.</p>
<p>Alga Microwave C-Band 70W BUC's.</p>		<p><b>BUC ALGA Microwave 60 Watt C-Band BUC, 70 dB gain. Model NJAL5964-60.</b> High Efficiency Output Power (12W minimum @P1dB over temperature). 110/220 VAC Autoranging Operation. Freq. 5.850 to 6.425 GHz, IF Freq. 950 to 1,525 MHz.</p>
<p>Alga Microwave C-Band 70W BUC's.</p>		<p><b>BUC ALGA Microwave 70 Watt C-Band BUC, 70 dB gain. Model NJAL5964-70.</b> High Efficiency Output Power (12W minimum @P1dB over temperature). 110/220 VAC Autoranging Operation. Freq. 5.850 to 6.425 GHz, IF Freq. 950 to 1,525 MHz.</p>
<p>Alga Microwave C-Band 80W BUC's.</p>		<p><b>BUC ALGA Microwave 80 Watt C-Band BUC, 80 dB gain. Model NJAL5964-70.</b> High Efficiency Output Power (12W minimum @P1dB over temperature). 110/220 VAC Autoranging Operation. Freq. 5.850 to 6.425 GHz, IF Freq. 950 to 1,525 MHz.</p>
<p>Mitec C-Band BUC's. L-Band IF.</p>		<p><b>BUC Mitec 10 Watt C-Band BUC, 70 dB gain. Model WTX-596440-70-ES-XX.</b> These units included an L-band up-converter powered by 24 VDC along with L-Band input and 10 MHz reference all in one cable.</p>





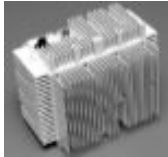



<p>Mitec C-Band BUC's. L-Band IF.</p>		<p><b>BUC Mitec 20 Watt C-Band BUC, 70 dB gain.</b> <b>Model WTX-596443-70-ES-XX.</b> These units included an L-band up-converter powered by 24 VDC along with L-Band input and 10 MHz reference all in one cable.</p>
<p>Mitec C-Band BUC's. L-Band IF.</p>		<p><b>BUC Mitec 40 Watt C-Band BUC, 70dB gain.</b> <b>Model WTX-596446-70-ES-XX.</b> These units included an L-band up-converter powered by 24 VDC along with L-Band input and 10 MHz reference all in one cable.</p>
<p>Mitec C-Band BUC's. L-Band IF.</p>		<p><b>BUC Mitec 60 Watt C-Band BUC, 70dB gain.</b> <b>Model WTX-596448-70-ES-XX.</b> These units included an L-band up-converter powered by 24 VDC along with L-Band input and 10 MHz reference all in one cable.</p>
<p>Mitec C-Band BUC's. L-Band IF.</p>		<p><b>BUC Mitec 80 Watt C-Band BUC, 70dB gain.</b> <b>Model WTX-596449-70-ES-XX.</b> These units included an L-band up-converter powered by 24 VDC along with L-Band input and 10 MHz reference all in one cable.</p>
<p>Mitec C-Band BUC's. L-Band IF.</p>		<p><b>BUC Mitec 100 Watt C-Band BUC, 70dB gain.</b> <b>Model WTX-596450-70-ES-XX.</b> These units included an L-band up-converter powered by 24 VDC along with L-Band input and 10 MHz reference all in one cable.</p>
<p>Mitec C-Band BUC's. L-Band IF.</p>		<p><b>BUC Mitec 125 Watt C-Band BUC, 70dB gain.</b> <b>Model WTX-596451-70-ES-XX.</b> These units included an L-band up-converter powered by 24 VDC along with L-Band input and 10 MHz reference all in one cable.</p>
<p>Mitec C-Band BUC's. L-Band IF.</p>		<p><b>BUC Mitec 150 Watt C-Band BUC, 70dB gain.</b> <b>Model WTX-596452-70-ES-XX.</b> These units included an L-band up-converter powered by 24 VDC along with L-Band input and 10 MHz reference all in one cable.</p>
<p>Mitec C-Band BUC's. L-Band IF.</p>		<p><b>BUC Mitec 200 Watt C-Band BUC, 70dB gain.</b> <b>Model WTX-596453-70-ES-XX.</b> These units included an L-band up-converter powered by 24 VDC along with L-Band input and 10 MHz reference all in one cable.</p>





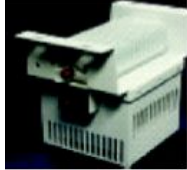


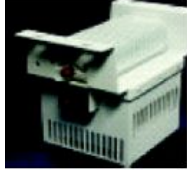
<p><b>C-Band Terrasat IBUC's . IF L-Banda.</b></p>		<p><b>Terrasat IBUCs. C-Band, 5 Watts.</b> Embedded web pages provide management for small networks using any web browser. Model IBUC058064-124005</p>
<p><b>C-Band Terrasat IBUC's . IF L-Band.</b></p>		<p><b>Terrasat IBUCs. C-Band, 10 Watts.</b> Embedded web pages provide management for small networks using any web browser. Model IBUC058064-124010</p>
<p><b>C-Band Terrasat IBUC's . IF L- Band.</b></p>		<p><b>Terrasat IBUCs. C-Band, 20 Watts.</b> Embedded web pages provide management for small networks using any web browser. Model IBUC058064-124020</p>
<p><b>C-Band Terrasat IBUC's . IF L-Band.</b></p>		<p><b>Terrasat IBUCs. C-Band, 25 Watts.</b> Embedded web pages provide management for small networks using any web browser. Model IBUC058064-124025</p>
<p><b>C-Band Terrasat IBUC's . IF L-Band.</b></p>		<p><b>Terrasat IBUCs. C-Band, 40 Watts.</b> Embedded web pages provide management for small networks using any web browser. Model IBUC058064-124040</p>
<p><b>C-Band Terrasat IBUC's . IF L- Band.</b></p>		<p><b>Terrasat IBUCs. C-Band, 60 Watts.</b> Embedded web pages provide management for small networks using any web browser. Model IBUC058064-124060</p>
<p><b>C-Band Terrasat IBUC's . IF L-Band.</b></p>		<p><b>Terrasat IBUCs. C-Band, 80 Watts.</b> Embedded web pages provide management for small networks using any web browser. Model IBUC058064-124080</p>
<p><b>C-Band Paradise BUC's . L-Band IF.</b></p>		<p><b>BUC Paradise Datacom 3100 Series C-Band 10 Watts.</b> Internal Phase Locked Local Oscillator provides excellent phase noise when locked to an external 10 MHz reference.</p>

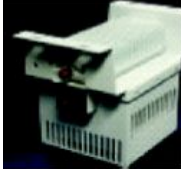
<p><b>C-Band Paradise BUC's . L-Band IF.</b></p>		<p><b>BUC Paradise Datacom 3100 Series C-Band 20 Watts.</b> Internal Phase Locked Local Oscillator provides excellent phase noise when locked to an external 10 MHz reference.</p>
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### 3.2 Ku-Band BUCs




<p><b>Ku-Band BUC's. L-Band IF.</b></p>		<p><b>Nexgenwave BUCs. Ku-Band 1 Watts.</b> Ideal for Broadband VSAT RF Terminal. Complies with Satellite Internet remote equipment for iDirect, NetModem and Viasat SurfBeam.</p>
<p><b>Ku-Band BUC's. L-Band IF.</b></p>		<p><b>Nexgenwave BUCs. Ku-Band 2 Watts.</b> Ideal for Broadband VSAT RF Terminal. Complies with Satellite Internet remote equipment for iDirect, NetModem and Viasat SurfBeam.</p>
<p><b>Ku-Band BUC's. L-Band IF.</b></p>		<p><b>Nexgenwave BUCs. Ku-Band 2.5-3 Watts.</b> Ideal for Broadband VSAT RF Terminal. Complies with Satellite Internet remote equipment for iDirect, NetModem and Viasat SurfBeam.</p>
<p><b>Ku-Band BUC's. L-Band IF.</b></p>		<p><b>Nexgenwave BUCs. Ku-Band 4 Watts.</b> Ideal for Broadband VSAT RF Terminal. Complies with Satellite Internet remote equipment for iDirect, NetModem and Viasat SurfBeam.</p>
<p><b>Ku-Band BUC's. L-Band IF.</b></p>		<p><b>California Amplifier BUCs. Ku-Band 2 Watts.</b> Ideal for Broadband VSAT RF Terminal. Complies with Satellite Internet remote equipment for iDirect and others. Limited inventory. No minimum orders.</p>

<p><b>Ku-Band BUC's, L-Band IF.</b></p>		<p><b>NJR BUCs. Ku-Band 2 Watts.</b> Model NJT 5016F Ideal for Broadband VSAT RF Terminal. Complies with Satellite Internet remote equipment for iDirect and others. Limited inventory.</p>
<p><b>Ku-Band BUC's, L-Band IF.</b></p>		<p><b>NJR BUCs. Ku-Band 3 Watts.</b> Model NJT 5037F Ideal for Broadband VSAT RF Terminal. Complies with Satellite Internet remote equipment for iDirect and others. No minimum orders.</p>
<p><b>Ku-Band BUC's, L-Band IF.</b></p>		<p><b>Norsat Block Up Converter 2-Watt (BUC), Model 1221XRT.</b> Frequency 14.0~14.5 GHz. L.O. 13.05 GHz. Linear Gain 50dB to 60dB. Available with F and N connectors.</p>
<p><b>Ku-Band BUC's, L-Band IF.</b></p>		<p><b>Norsat Block Up Converter 4-Watts (BUC) , Model 1081XRT.</b> Frequency 14.0~14.5 GHz. Linear Gain: 50dB to 60dB. Available with F and N connectors.</p>
<p><b>Ku-Band BUC's, L-Band IF.</b></p>		<p><b>Norsat Block Up Converter 8-Watts (BUC) , Model 1240XRT.</b> Frequency 14.0~14.5 GHz. Linear Gain: 50dB to 60dB. Available with F and N connectors.</p>
<p><b>Ku-Band BUC's, L-Band IF.</b></p>		<p><b>Alga Microwave BUCs. Ku-Band 8 Watts.</b> Model NJAL1414-8. High Efficiency Output Power (12W minimum @ P1dB over temperature). 110/220VAC Operation (48VDC optional). No "Cooling Fan" Solution. Freq. 14.0~14.5 GHz. Local Freq. 13.05GHz.</p>
<p><b>Ku-Band BUC's, L-Band IF.</b></p>		<p><b>Alga Microwave BUCs. Ku-Band 10 Watts.</b> Model NJAL1414-10. High Efficiency Output Power (12W minimum @ P1dB over temperature). 110/220VAC Operation (48VDC optional). No "Cooling Fan" Solution. Freq. 14.0~14.5 GHz. Local Freq. 13.05GHz.</p>
<p><b>Ku-Band BUC's, L-Band IF.</b></p>		<p><b>Alga Microwave BUCs. Ku-Band 12 Watts.</b> Model NJAL1414-12. High Efficiency Output Power (12W minimum @ P1dB over temperature). 110/220VAC Operation (48VDC optional). No "Cooling Fan" Solution. Freq. 14.0~14.5 GHz. Local Freq. 13.05GHz.</p>

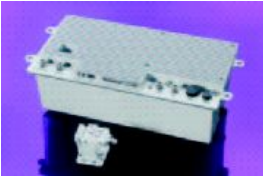
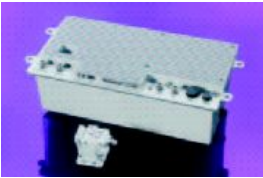
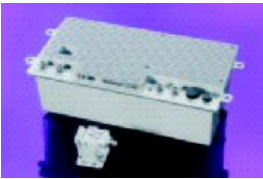
<p><b>Ku-Band BUC's. L-Band IF.</b></p>		<p><b>Alga Microwave BUCs. Ku-Band 16 Watts.</b> Model NJAL1414-16. High Efficiency Output Power (12W minimum @ P1dB over temperature). 110/220VAC Operation (48VDC optional). No "Cooling Fan" Solution. Freq. 14.0~14.5 GHz. Local Freq. 13.05GHz.</p>
<p><b>Ku-Band BUC's. L-Band IF.</b></p>		<p><b>Alga Microwave BUCs. Ku-Band 20 Watts.</b> Model NJAL1414-20. High Efficiency Output Power (12W minimum @ P1dB over temperature). 110/220VAC Operation (48VDC optional). No "Cooling Fan" Solution. Freq. 14.0~14.5 GHz. Local Freq. 13.05GHz.</p>
<p><b>Ku-Band BUC's. L-Band IF.</b></p>		<p><b>Alga Microwave BUCs. Ku-Band 25 Watts.</b> Model NJAL1414-25. High Efficiency Output Power (12W minimum @ P1dB over temperature). 110/220VAC Operation (48VDC optional). No "Cooling Fan" Solution. Freq. 14.0~14.5 GHz. Local Freq. 13.05GHz.</p>
<p><b>Ku-Band BUC's. L-Band IF.</b></p>		<p><b>Alga Microwave BUCs. Ku-Band 40 Watts.</b> Model NJAL1414-40. High Efficiency Output Power (12W minimum @ P1dB over temperature). 110/220VAC Operation (48VDC optional). No "Cooling Fan" Solution. Freq. 14.0~14.5 GHz. Local Freq. 13.05GHz.</p>
<p><b>Mitec Ku-Band BUC's. L-Band IF.</b></p>		<p><b>BUC Mitec 8 Watt Ku-Band BUC, 70dB gain.</b> Model WTX-14014539-70-ES-XX. These units included an L-band up-converter powered by 24 VDC along with L-Band input and 10 MHz reference all in one cable. Freq. 14.0~14.5 GHz.</p>
<p><b>Mitec Ku-Band BUC's. L-Band IF.</b></p>		<p><b>BUC Mitec 10 Watt Ku-Band BUC, 70dB gain.</b> Model WTX-14014540-70-ES-XX. These units included an L-band up-converter powered by 24 VDC along with L-Band input and 10 MHz reference all in one cable. Freq. 14.0~14.5 GHz.</p>
<p><b>Mitec Ku-Band BUC's. L-Band IF.</b></p>		<p><b>BUC Mitec 12 Watt Ku-Band BUC, 70dB gain.</b> Model WTX-14014541-70-ES-XX. These units included an L-band up-converter powered by 24 VDC along with L-Band input and 10 MHz reference all in one cable. Freq. 14.0~14.5 GHz.</p>
<p><b>Mitec Ku-Band BUC's. L-Band IF.</b></p>		<p><b>BUC Mitec 16 Watt Ku-Band BUC, 70dB gain.</b> Model WTX-14014542-70-ES-XX. These units included an L-band up-converter powered by 24 VDC along with L-Band input and 10 MHz reference all in one cable. Freq. 14.0~14.5 GHz.</p>

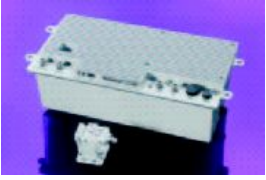
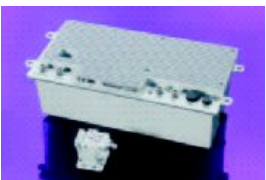




<p>Mitec Ku-Band BUC's. L-Band IF.</p>		<p><b>BUC Mitec 20 Watt Ku-Band BUC, 70dB gain. Model WTX-14014543-70-ES-XX.</b> These units included an L-band up-converter powered by 24 VDC along with L-Band input and 10 MHz reference all in one cable. Freq. 14.0~14.5 GHz.</p>
<p>Mitec Ku-Band BUC's. L-Band IF.</p>		<p><b>BUC Mitec 25 Watt Ku-Band BUC, 70dB gain. Model WTX-14014544-70-ES-XX.</b> These units included an L-band up-converter powered by 24 VDC along with L-Band input and 10 MHz reference all in one cable. Freq. 14.0~14.5 GHz.</p>
<p>Mitec Ku-Band BUC's. L-Band IF.</p>		<p><b>BUC Mitec 30 Watt Ku-Band BUC, 70dB gain. Model WTX-14014545-70-ES-XX.</b> These units included an L-band up-converter powered by 24 VDC along with L-Band input and 10 MHz reference all in one cable. Freq. 14.0~14.5 GHz.</p>
<p>Mitec Ku-Band BUC's. L-Band IF.</p>		<p><b>BUC Mitec 40 Watt Ku-Band BUC, 70dB gain. Model WTX-14014546-70-ES-XX.</b> These units included an L-band up-converter powered by 24 VDC along with L-Band input and 10 MHz reference all in one cable. Freq. 14.0~14.5 GHz.</p>
<p>Mitec Ku-Band BUC's. L-Band IF.</p>		<p><b>BUC Mitec 50 Watt Ku-Band BUC, 70dB gain. Model WTX-14014547-70-ES-XX.</b> These units included an L-band up-converter powered by 24 VDC along with L-Band input and 10 MHz reference all in one cable. Freq. 14.0~14.5 GHz.</p>
<p>Mitec Ku-Band BUC's. L-Band IF.</p>		<p><b>BUC Mitec 80 Watt Ku-Band BUC, 70dB gain. Model WTX-14014549-70-ES-XX.</b> These units included an L-band up-converter along with L-Band input and 10 MHz reference all in one cable. High power booster with AC or DC supply. Freq. 14.0~14.5 GHz.</p>
<p>Mitec Ku-Band BUC's. L-Band IF.</p>		<p><b>BUC Mitec 100 Watt Ku-Band BUC, 70dB gain. Model WTX-14014550-70-ES-XX.</b> These units included an L-band up-converter along with L-Band input and 10 MHz reference all in one cable. High power booster with AC or DC supply. Freq. 14.0~14.5 GHz.</p>
<p>Mitec Ku-Band BUC's. L-Band IF.</p>		<p><b>BUC Mitec 125 Watt Ku-Band BUC, 70dB gain. Model WTX-14014551-70-ES-XX.</b> These units included an L-band up-converter along with L-Band input and 10 MHz reference all in one cable. High power booster with AC or DC supply. Freq. 14.0~14.5 GHz.</p>
<p>Mitec Ku-Band BUC's. L-Band IF.</p>		<p><b>BUC Mitec 150 Watt Ku-Band BUC, 70dB gain. Model WTX-14014552-70-ES-XX.</b> These units included an L-band up-converter along with L-Band input and 10 MHz reference all in one cable. High power booster with AC or DC supply. Freq. 14.0~14.5 GHz.</p>




<p><b>Mitec Ku-Band BUC's. L-Band IF.</b></p>		<p><b>BUC Mitec 200 Watt Ku-Band BUC, 70dB gain. Model WTX-14014553-70-ES-XX.</b> These units included an L-band up-converter along with L-Band input and 10 MHz reference all in one cable. High power booster with AC or DC supply. Freq. 14.0~14.5 GHz.</p>
<p><b>Ku-Band BUC's. L-Band IF.</b></p>		<p><b>Terrasat IBUCs. Ku-Band 4 Watts.</b> Embedded web pages provide management for small networks using any web browser. Model IBUC140145-024004</p>
<p><b>Ku-Band BUC's. L-Band IF.</b></p>		<p><b>Terrasat IBUCs. Ku-Band 8 Watts.</b> Embedded web pages provide management for small networks using any web browser. Model IBUC140145-048008</p>
<p><b>Ku-Band BUC's. L-Band IF.</b></p>		<p><b>Terrasat IBUCs. Ku-Band 12 Watts.</b> Embedded web pages provide management for small networks using any web browser. Model IBUC140145-048012</p>
<p><b>Ku-Band BUC's. L-Band IF.</b></p>		<p><b>Terrasat IBUCs. Ku-Band 16 Watts.</b> Embedded web pages provide management for small networks using any web browser. Model IBUC140145-048016</p>
<p><b>Ku-Band BUC's. L-Band IF.</b></p>		<p><b>Terrasat IBUCs. Ku-Band 20 Watts.</b> Embedded web pages provide management for small networks using any web browser. Model IBUC140145-048020</p>
<p><b>Ku-Band BUC's. L-Band IF.</b></p>		<p><b>Terrasat IBUCs. Ku-Band 25 Watts.</b> Embedded web pages provide management for small networks using any web browser. Model IBUC140145-048025</p>
<p><b>Ku-Band BUC's. L-Band IF.</b></p>		<p><b>Terrasat IBUCs. Ku-Band 30 Watts.</b> Embedded web pages provides management for small networks using any web browser. Model IBUC140145-048030</p>

<p><b>Ku-Band BUC's, L-Band IF.</b></p>		<p><b>Terrasat IBUCs, Ku-Band 40 Watts.</b> Embedded web pages provides management for small networks using any web browser. Model IBUC140145-048040</p>
<p><b>Ku-Band BUC's, L-Band IF.</b></p>		<p><b>BUC Paradise Datacom 3100 Series, 8 Watts Ku-band.</b> Internal Phase Locked Local Oscillator provides excellent phase noise when locked to an external 10 MHz reference.</p>
<p><b>Ku-Band BUC's, L-Band IF.</b></p>		<p><b>BUC Paradise Datacom 3100 Series, 10 Watts Ku-band.</b> Internal Phase Locked Local Oscillator provides excellent phase noise when locked to an external 10 MHz reference.</p>

#### 4.0 Transceiver(HPAs) and SSPA

<p><b>C-Band Transceiver 70 Mhz IF</b></p>		<p><b>Anancom, Anasat 2 Watt C-Band Transceiver Model 30793.</b> Tx Freq. 5850~6425 Mhz. 70 MHz IF input, output (type N) fixed gain, M&amp;C, independent TX/RX frequency and gain control, 65K LNC, 10' cable and auto ranging power supply from 100 or 240 VAC.</p>
<p><b>C-Band Transceiver 70 Mhz IF</b></p>		<p><b>Anancom, Anasat 5 Watts. C-Band Transceiver Model 30794.</b> Tx Freq. 5850~6425 Mhz. 70 MHz IF input, output (type N) fixed gain, M&amp;C, independent TX/RX frequency and gain control, 65K LNC, 10' cable and auto ranging power supply from 100 or 240 VAC.</p>
<p><b>C-Band Transceiver 70 Mhz IF</b></p>		<p><b>Anancom, Anasat 10 Watts. C-Band Transceiver Model 30795.</b> Tx Freq. 5850~6425 Mhz. 70 MHz IF input, output (type N) fixed gain, M&amp;C, independent TX/RX frequency and gain control, 65K LNC, 10' cable and auto ranging power supply from 100 or 240 VAC.</p>

<p>C-Band Transceiver 70 Mhz IF</p>		<p><b>Anancom, Anasat 20 Watts. C-Band Transceiver Model 30796.</b>  Tx Freq. 5850~6425 Mhz. 70 MHZ  IF input, output (type N) fixed gain, M&amp;C, independent TX/RX frequency and gain control, 65K LNC, 10' cable and auto ranging power supply from 100 or 240 VAC.</p>
<p>C-Band Transceiver 70 Mhz IF</p>		<p><b>Anancom, Anasat 30 Watts C-Band Transceiver Model 31005.</b>  Tx Freq. 5850~6425 Mhz. 70 MHZ  IF input, output (type N) fixed gain, M&amp;C, independent TX/RX frequency and gain control, 65K LNC, 10' cable and auto ranging power supply from 100 or 240 VAC.</p>
<p>C-Band Transceiver 70 Mhz IF</p>		<p><b>Anancom, Anasat 40 Watts. C-Band Transceiver Model 30800.</b>  Tx Freq. 5850~6425 Mhz. 70 MHZ  IF input, output (type N) fixed gain, M&amp;C, independent TX/RX frequency and gain control, 65K LNC, 10' cable and auto ranging power supply from 100 or 240 VAC.</p>
<p>C-Band Transceiver 70 Mhz IF</p>		<p><b>Anancom, Anasat 50 Watts. C-Band Transceiver Model 31237.</b>  Tx Freq. 5850~6425 Mhz. 70 MHZ  IF input, output (type CPR137) fixed gain, M&amp;C, independent TX/RX frequency and gain control, 65K LNC, 10' cable and auto ranging power supply from 100 or 240 VAC.</p>
<p>C-Band Transceiver 70 Mhz IF</p>		<p><b>Anancom, Anasat 60 Watts. C-Band Transceiver Model 31508.</b>  Tx Freq. 5850~6425 Mhz. 70 MHZ  IF input, output (type CPR137) fixed gain, M&amp;C, independent TX/RX frequency and gain control, 65K LNC, 10' cable and auto ranging power supply from 100 or 240 VAC.</p>
<p>C-Band Transceiver 70 Mhz IF</p>		<p><b>Anancom, Anasat 70 Watts. C-Band Transceiver Model 31509.</b>  Tx Freq. 5850~6425 Mhz. 70 MHZ  IF input, output (type CPR137) fixed gain, M&amp;C, independent TX/RX frequency and gain control, 65K LNC, 10' cable and auto ranging power supply from 100 or 240 VAC.</p>

<p><b>C-Band Transceiver 70 Mhz IF</b></p>		<p><b>Anancom, Anasat 80 Watts. C-Band Transceiver Model 31285.</b> Tx Freq. 5850~6425 Mhz. 70 MHZ IF input, output (type CPR137) fixed gain, M&amp;C, independent TX/RX frequency and gain control, 65K LNC, 10' cable and auto ranging power supply from 100 or 240 VAC.</p>
<p><b>C-Band Transceiver 70 Mhz IF</b></p>		<p><b>Anancom, Anasat 100 Watts. C-Band Transceiver Model 31295.</b> Tx Freq. 5850~6425 Mhz. 70 MHZ IF input, output (type CPR137) fixed gain, M&amp;C, independent TX/RX frequency and gain control, 65K LNC, 10' cable and auto ranging power supply from 100 or 240 VAC.</p>
<p><b>C-Band Transceiver 70 Mhz IF</b></p>		<p><b>Anancom, Anasat 125 Watts. C-Band Transceiver Model 31535.</b> Tx Freq. 5850~6425 Mhz. 70 MHZ IF input, output (type CPR137) fixed gain, M&amp;C, independent TX/RX frequency and gain control, 65K LNC, 10' cable and auto ranging power supply from 100 or 240 VAC.</p>