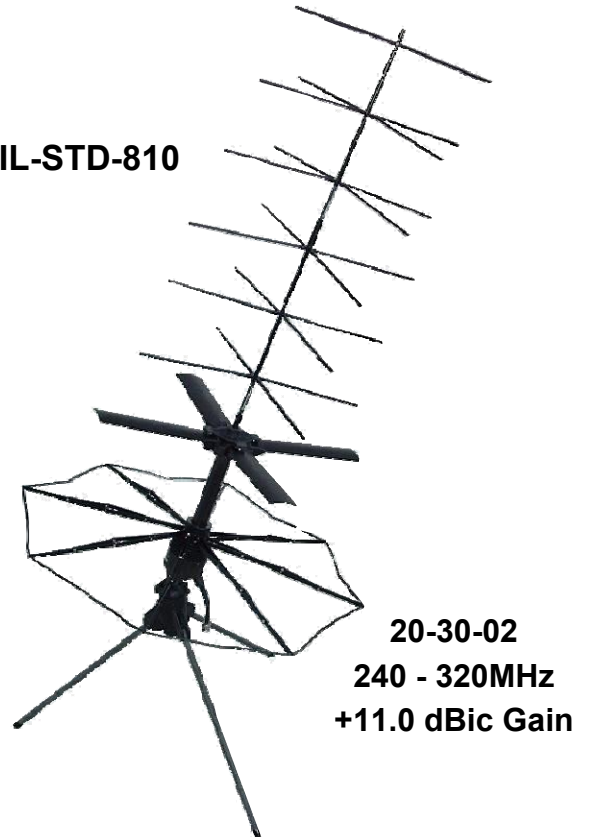




**20-30-( )**  
**NSN 5985-01-485-4672**  
**UHF SATCOM Antennas**  
**240 to 400 MHz**

## FEATURES

- **Approved to NSN 5985-01-485-4672 (20-30-02)**
- **Design to comply with appropriate sections MIL-STD-810**
- **Lightweight**
- **19 inches by 5 inches stowed size**
- **Includes Carrying Bag and Manual**
- **Quick Set-up and Stowage**
- **Tripod or Hand-Held Operation**
- **Low Visibility**
- **Robust Construction**
- **All Weather operation**
- **High Gain**
- **200 Watts CW Power**
- **Right hand Circular Polarization**
- **Designed to Requirements of**  
**NSN 5985-01-412-2109, NSN 5985-01-1492576,**  
**NSN 5985-01-128-6418**



The 20-30-( ) series are right hand circularly polarized directional antennas. Two plug-in extensions are supplied with the 20-30-02 to provide an increase in gain to 11 dBic from the 7dBic of the 20-30-01. Both antennas can easily be adjusted in azimuth and elevation for best performance and locked in position with a single thumbscrew. The tripod legs can be removed by a single thumbscrew to enable the antennas to be used as hand-held units. They are compatible with all popular military SATCOM radios operating in the UHF band.

These antennas are members of a family of quickly deployed lightweight antennas developed by Cooper Antennas Ltd for tactical military communications. Rugged design ensures reliability in arctic, jungle or equatorial desert environments. The unique Cooper Antennas design enables a single person to set up the antennas in 30 seconds, under the most demanding combat conditions. They are especially well suited to special mission applications.

**Cooper Antennas Ltd for non-USA customers**  
Thames Industrial Estate, Unit K, Fieldhouse Lane,  
Buckinghamshire SL7 1TB, UK  
Tel: +44 (0) 1628 482 360  
Email: sales@cooperantennas.com  
www.cooperantennas.com

**Australian Representatives**  
**ROJONE, PTY LTD.**  
Tel: 02 9829 1555  
E: sales@rojone.com.au  
www.rojone.com.au

# SPECIFICATIONS

**Cooper Antennas Model 20-30-( )**

**NSN 5985-01-485-4672**

**UHF SATCOM Antennas**

Satcom System Type	<u>20-30-01</u>	<u>20-30-02</u>	<u>20-30-03</u>
--------------------	-----------------	-----------------	-----------------

ELECTRICAL			
------------	--	--	--

Frequency	240-400 MHz	240-320 MHz	240-320 MHz
Gain (nominal)	+7 dBic	+11 dBic	+9 dBic
VSWR	----- ≤ 1.5:1 max. -----		
Impedance	----- 50 Ohms -----		
Power	----- 200 Watt CW -----		
Polarization	----- Right Hand Circular -----		
Antenna Connector	----- BNC Male -----		
Operational Temperature	----- -40°C to +71°C -----		
RF Cable (12 feet (3.6m) long)	1 each	2 each	2 each
RF Cable Connector	----- BNC Male and Female -----		

MECHANICAL			
------------	--	--	--

Element Height (without Directors)	----- 24 inches (610mm) -----		
Element Diameter (approx)			
Upper (Petals)	----- 18.5 inches (470mm) -----		
Lower (Reflector)	----- 24 inches (610mm) -----		
Total Height	26.5 inches (673mm)	53.5 inches (1359mm)	40 inches (1016mm)
Number of extensions	None	Two	One

STOWED SIZE			
-------------	--	--	--

Diameter (approx)	----- 5 inches (127mm) -----		
Length (approx)	----- 19 inches (483mm) -----		
Weight (excluding Bag & Accessories)	3 lbs (1.36kg)	3.6 lbs (1.63kg)	3.3 lbs (1.5kg)

FINISH (applicable to all)	
----------------------------	--

Antenna	Black anodised and black composites material
Legs	Self coloured black glass epoxy

Note: Cooper Antennas Ltd has a policy of continuous product improvement and data herein is therefore subject to change. Please check with Cooper Antennas Ltd that this data sheet is at latest issue before initiating contract activity.